

4145

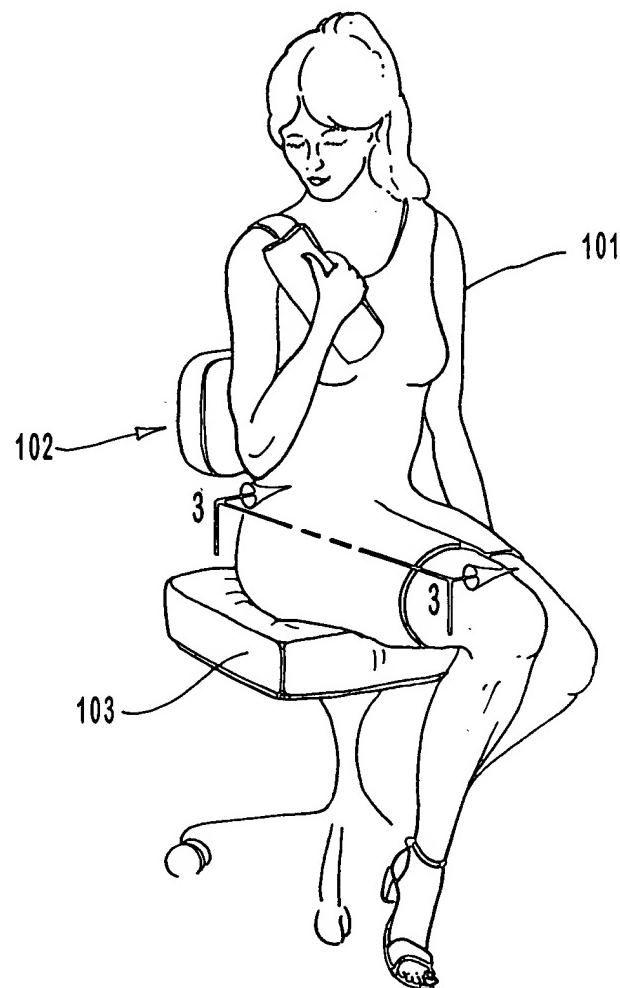


FIG. 1

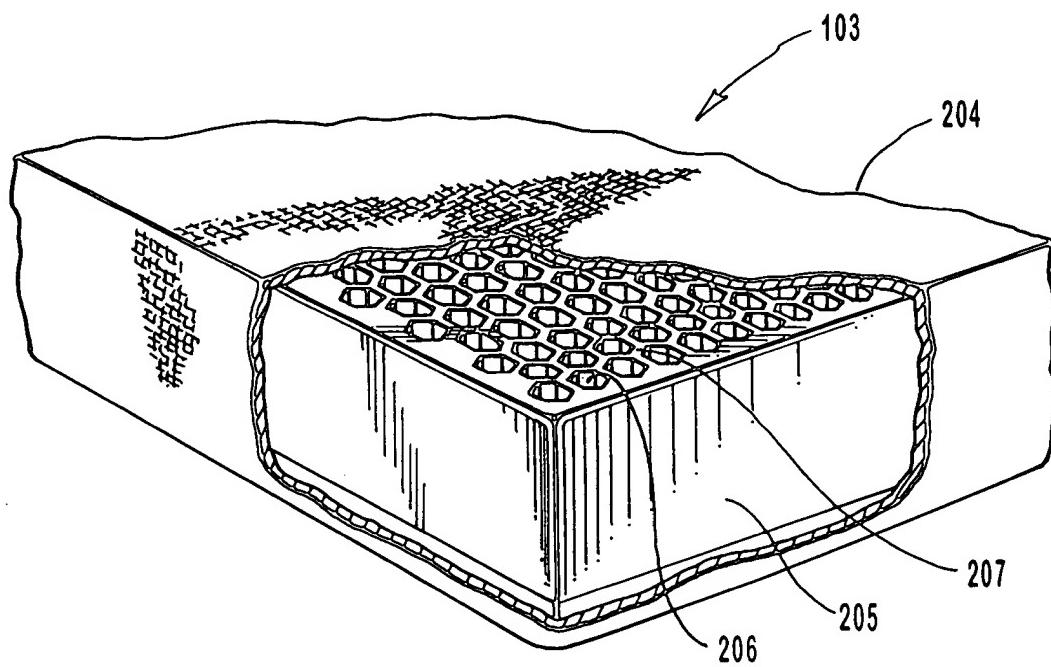


FIG. 2

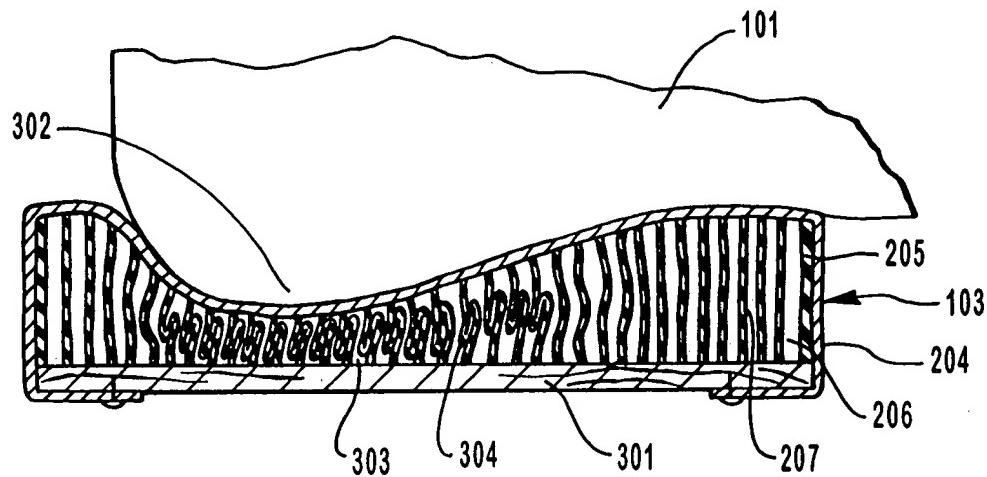


FIG. 3

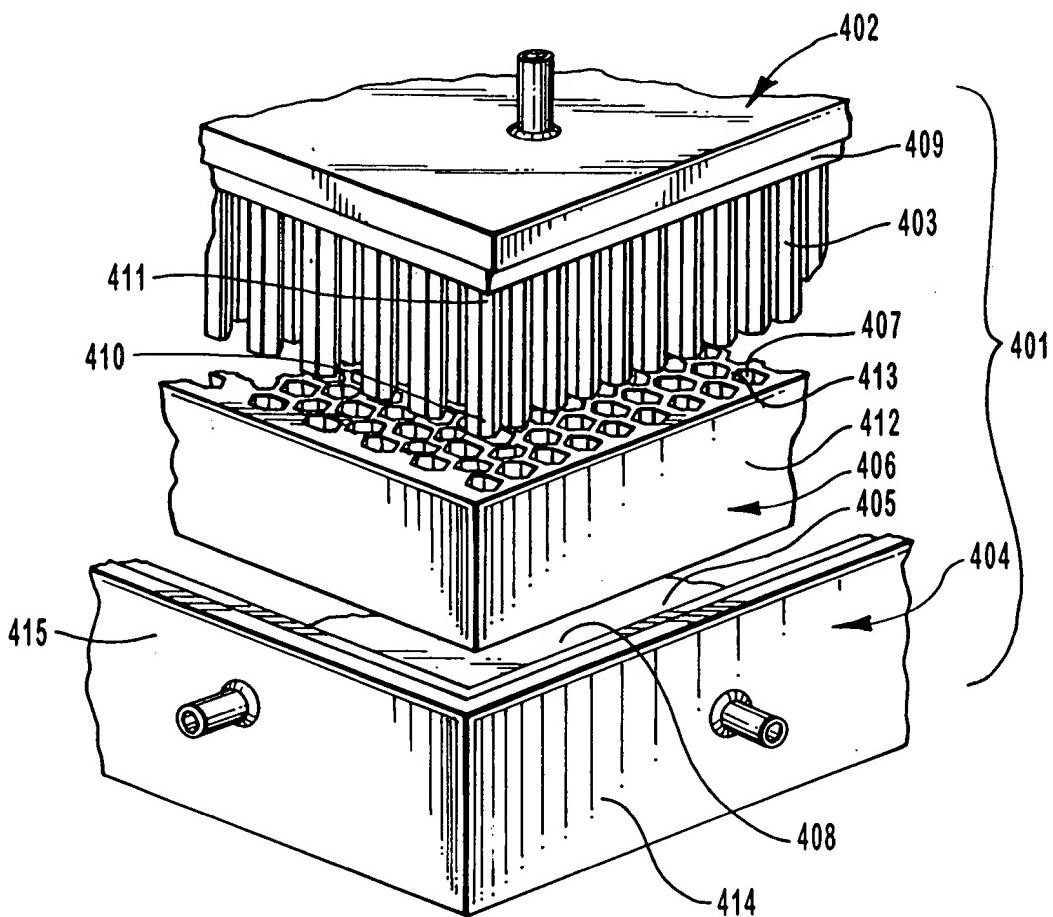


FIG. 4

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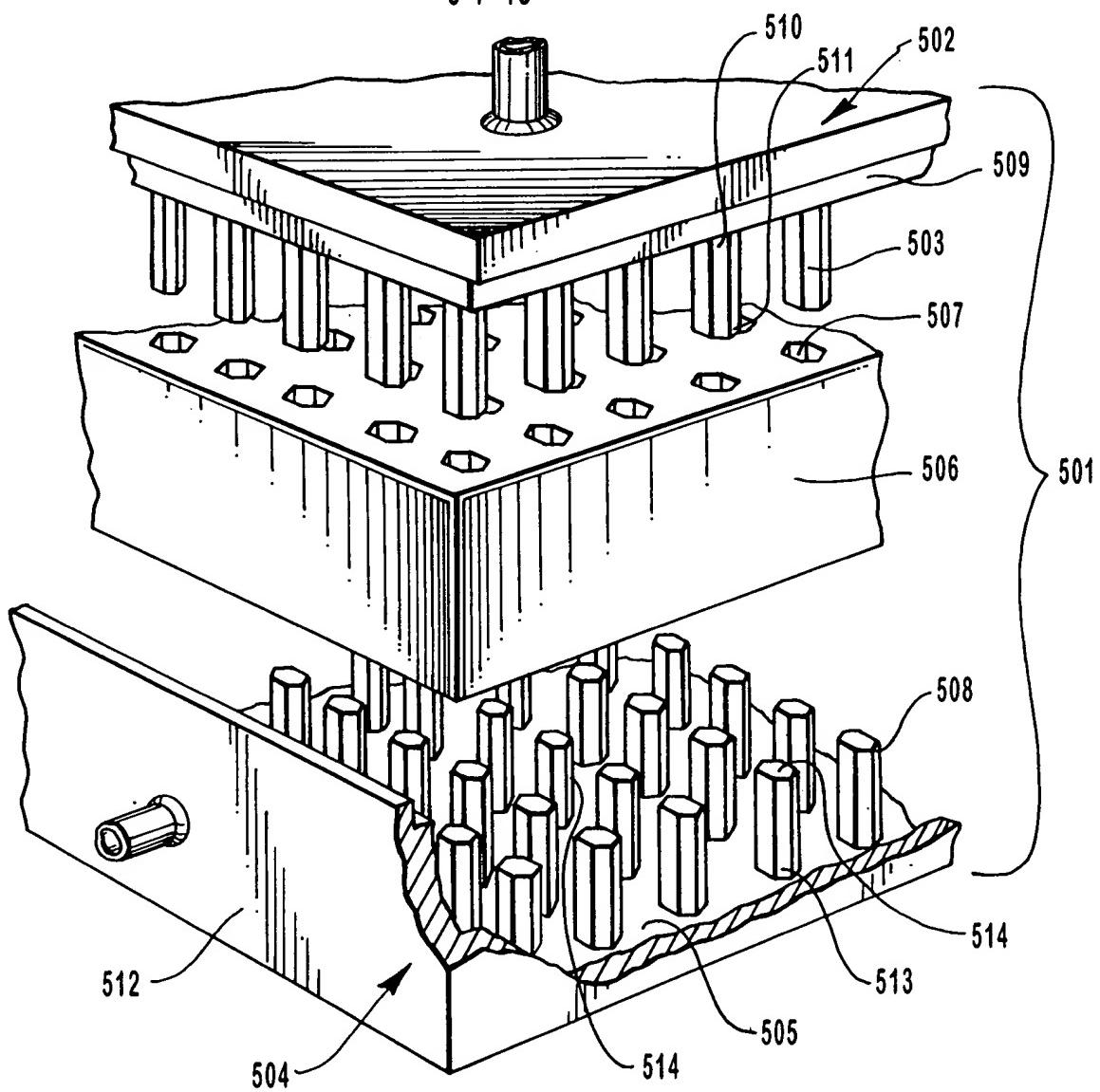


FIG. 5

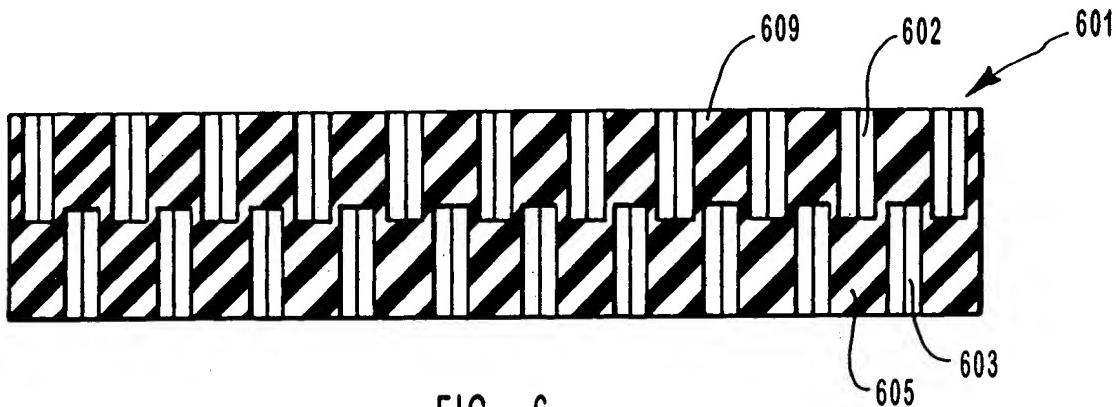


FIG. 6

4145

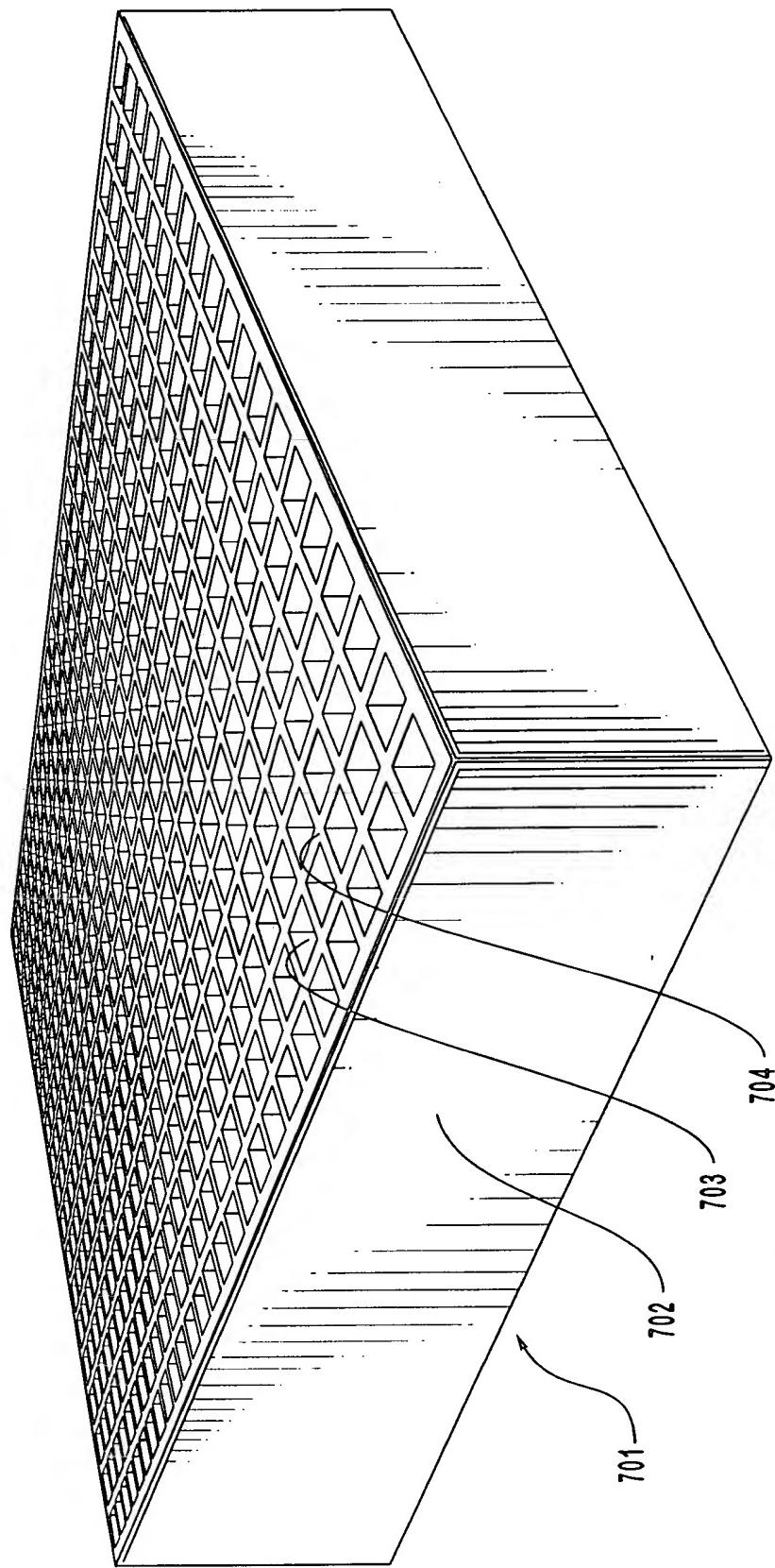


FIG. 7

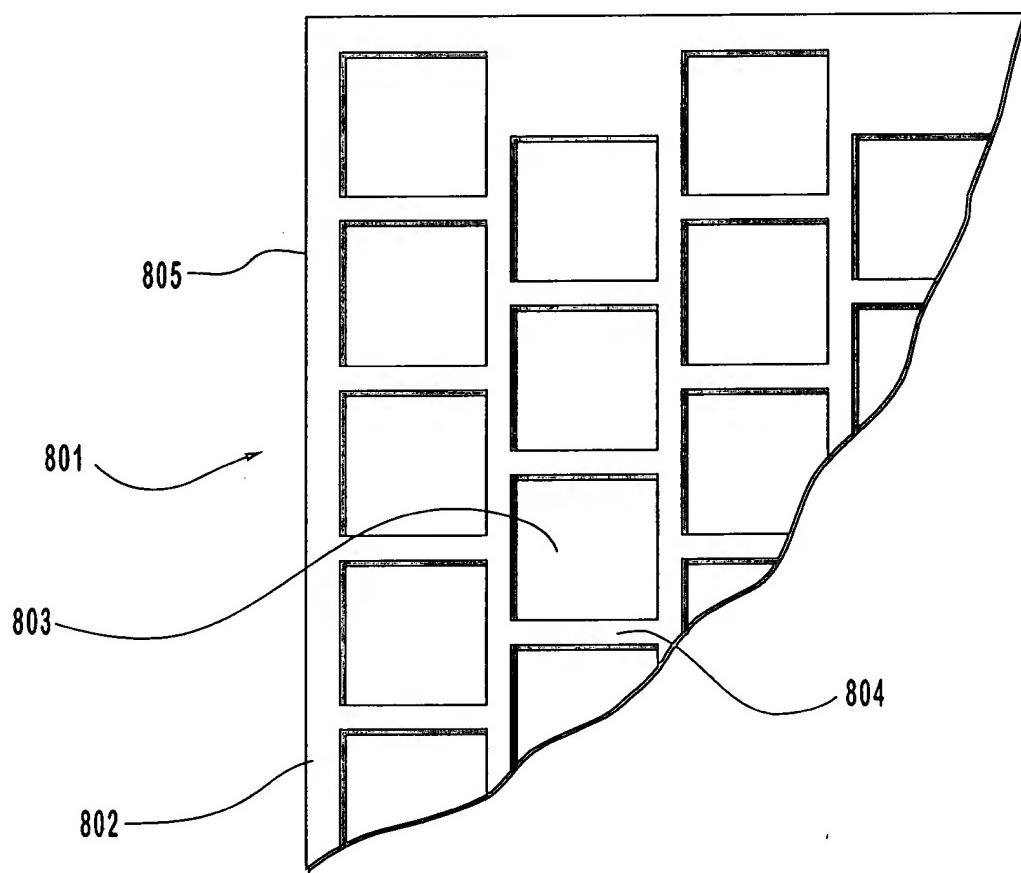


FIG. 8

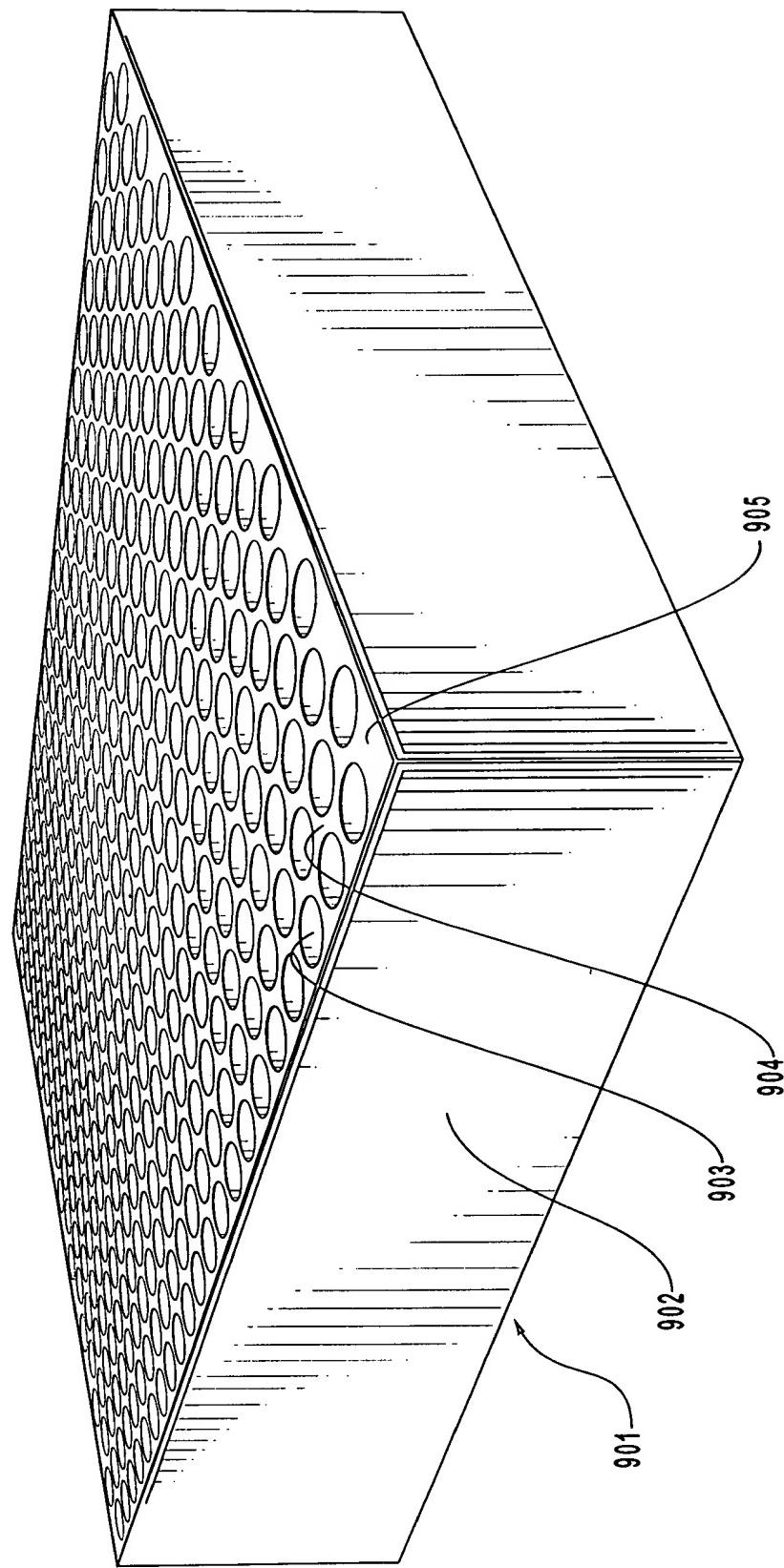
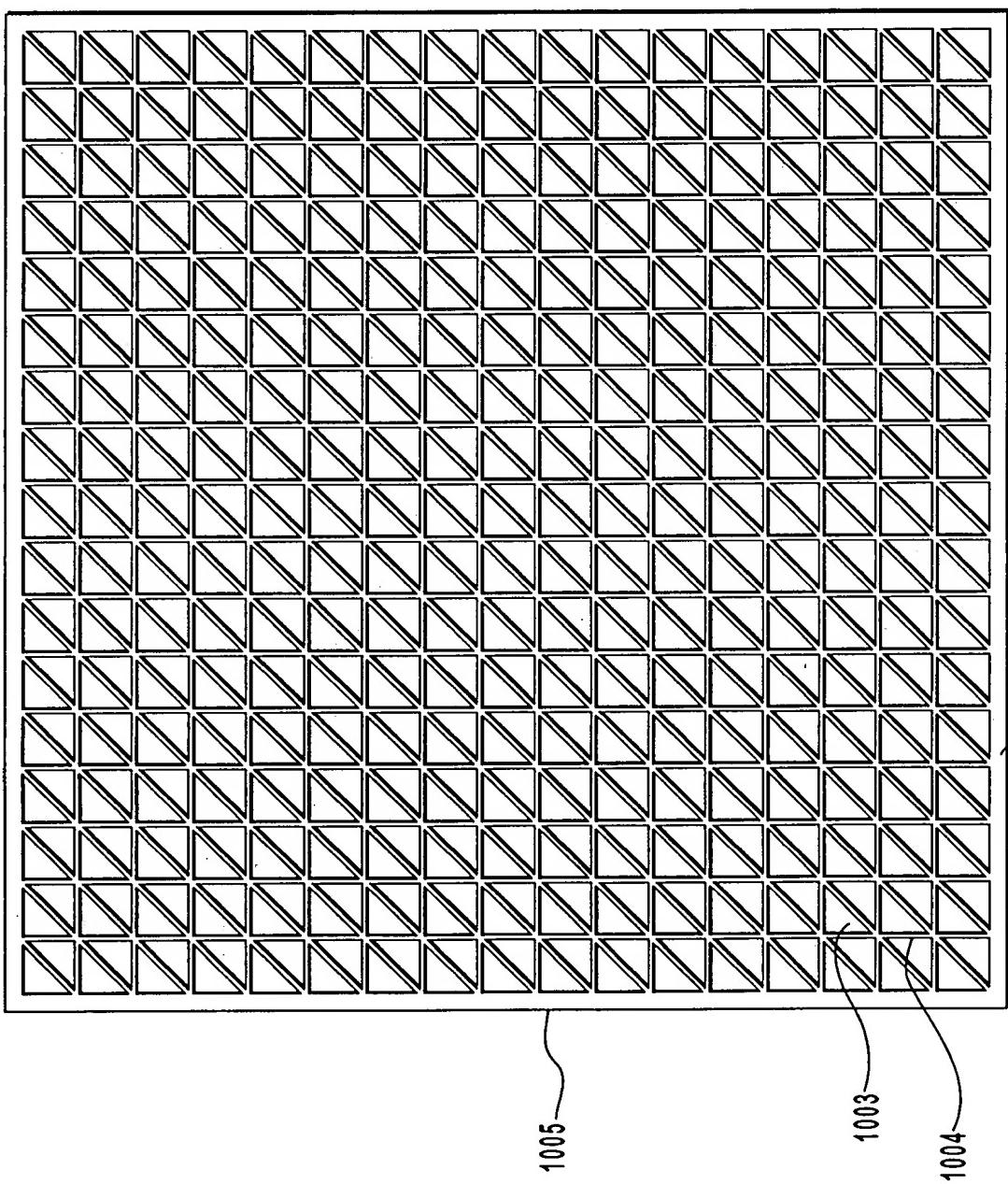


FIG. 9



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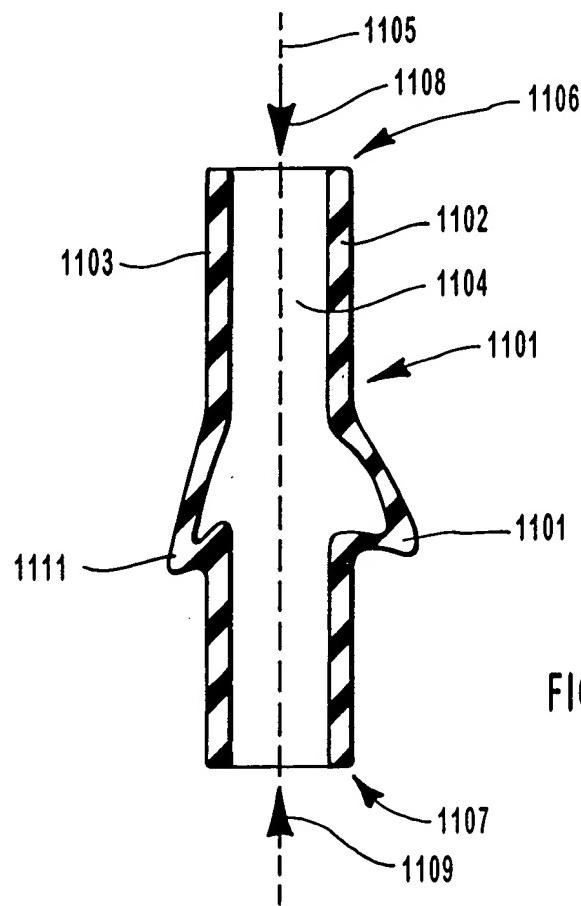


FIG. 11

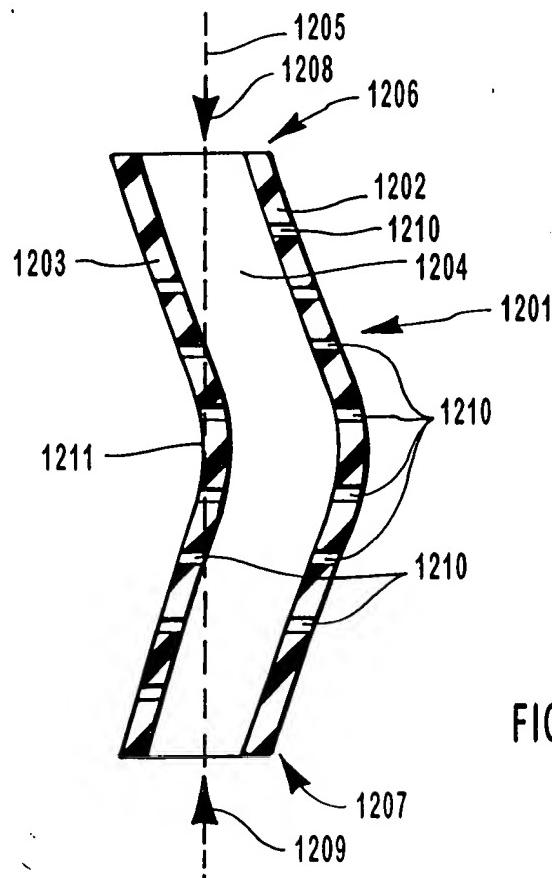


FIG. 12

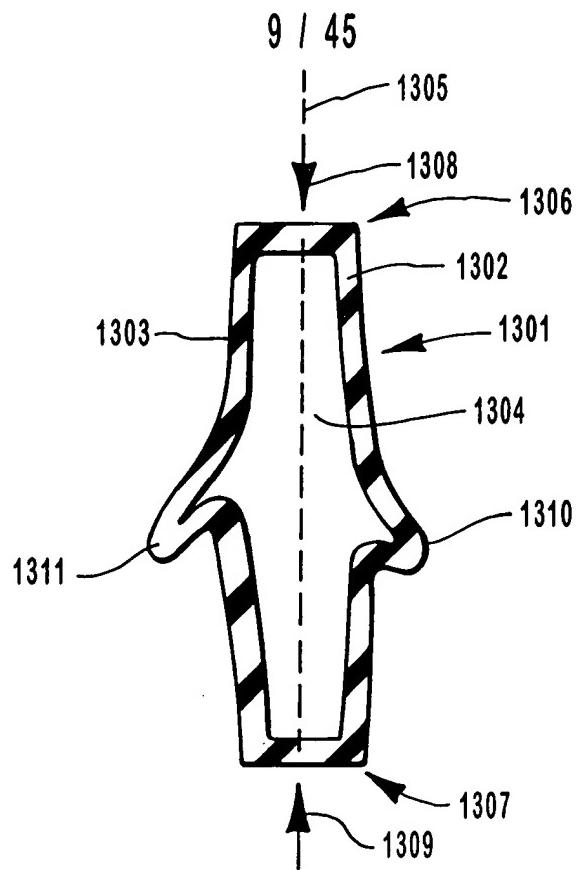


FIG. 13

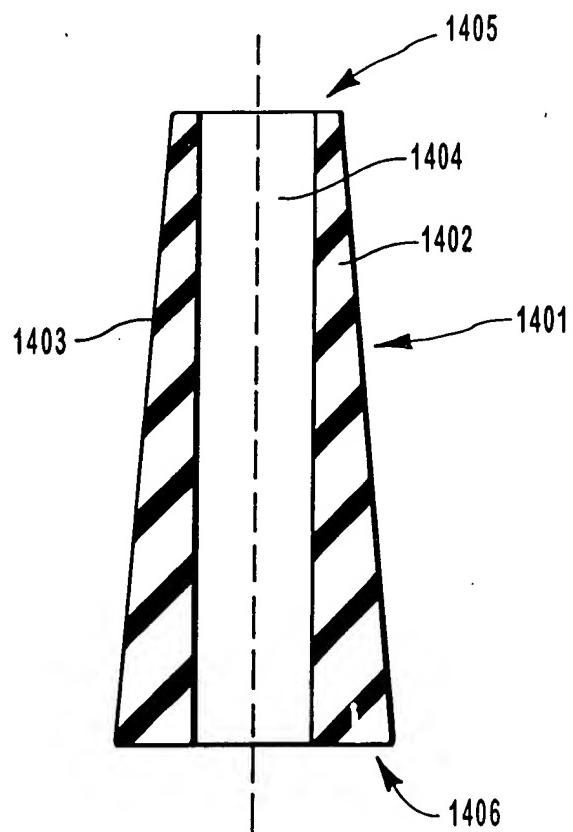


FIG. 14

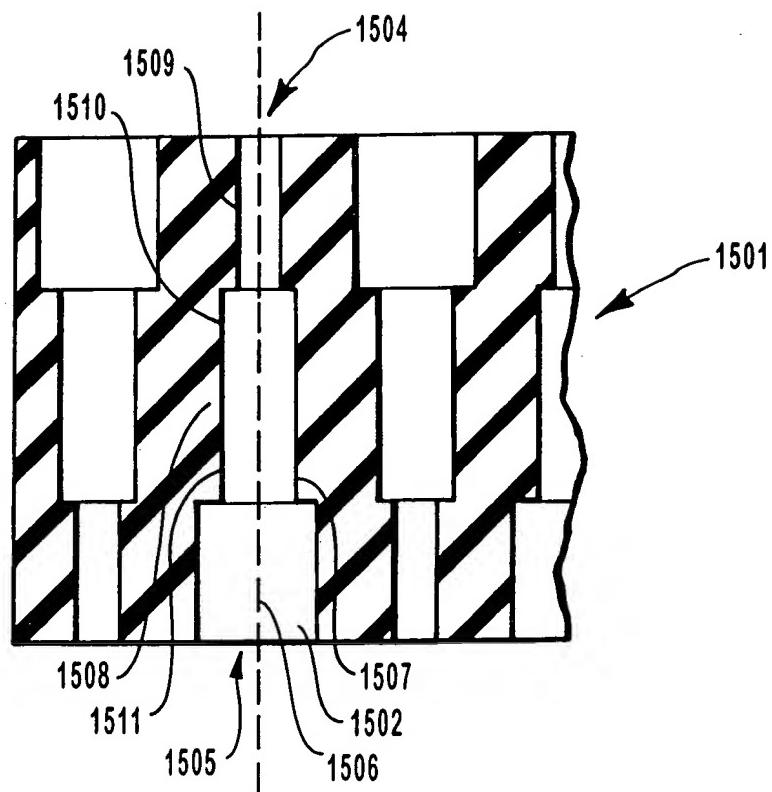


FIG. 15

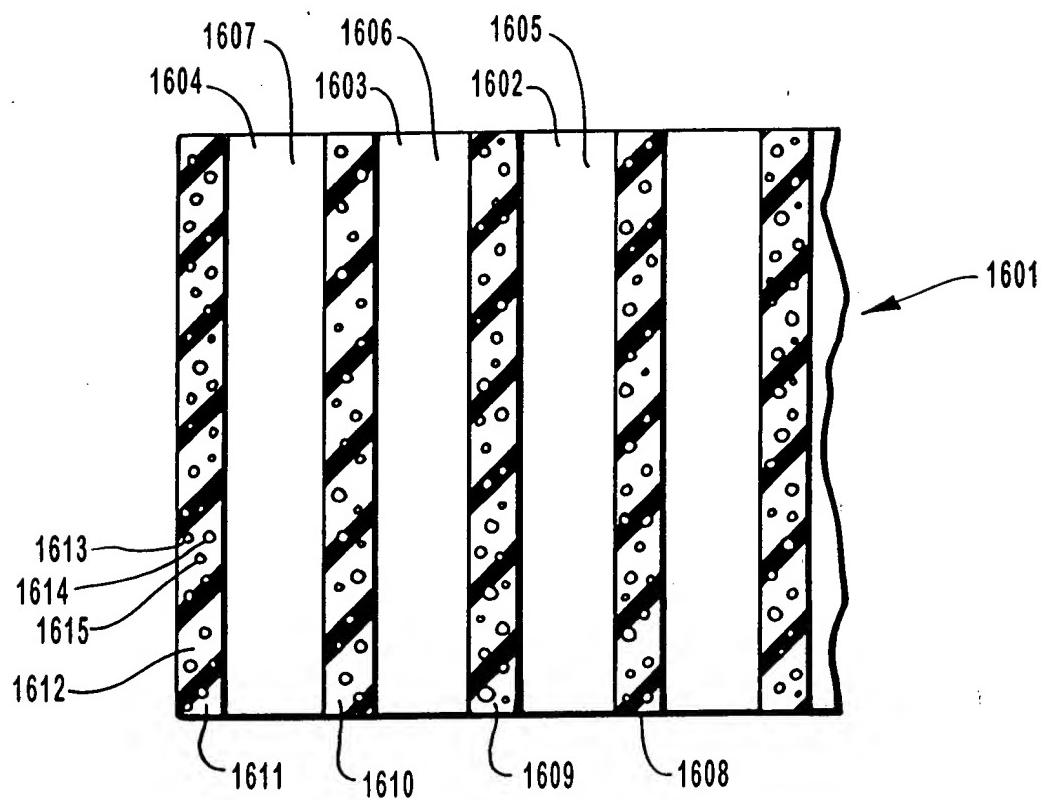
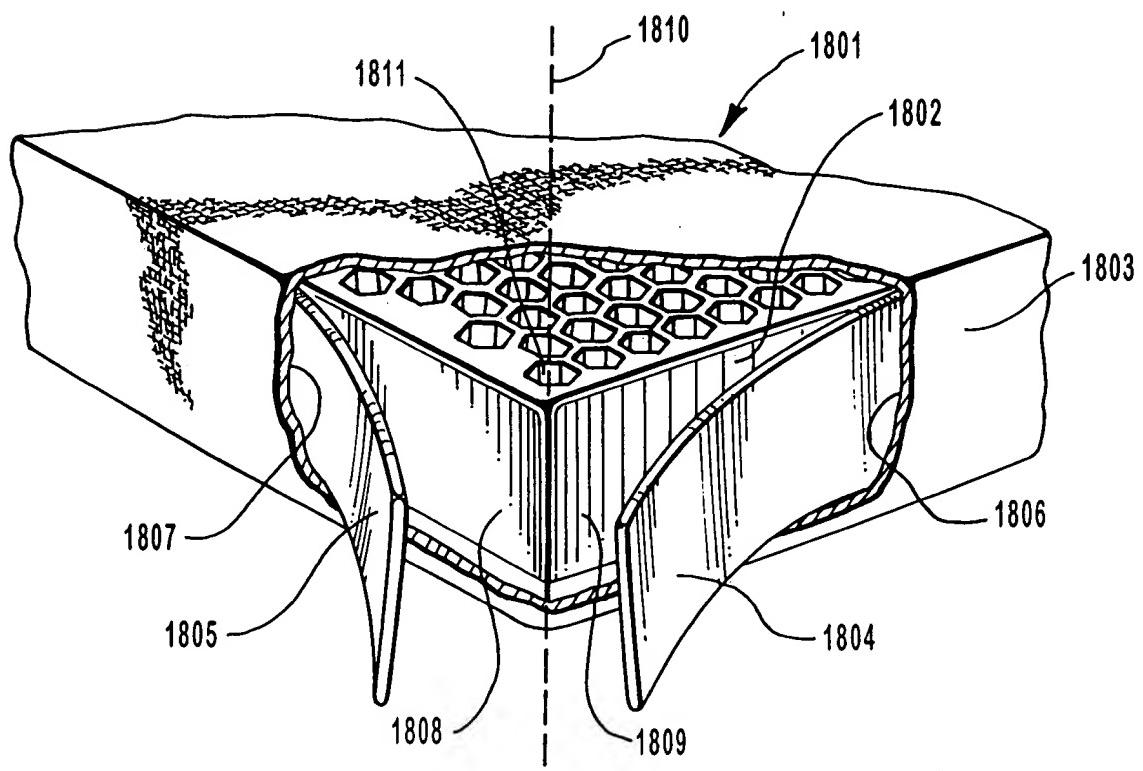
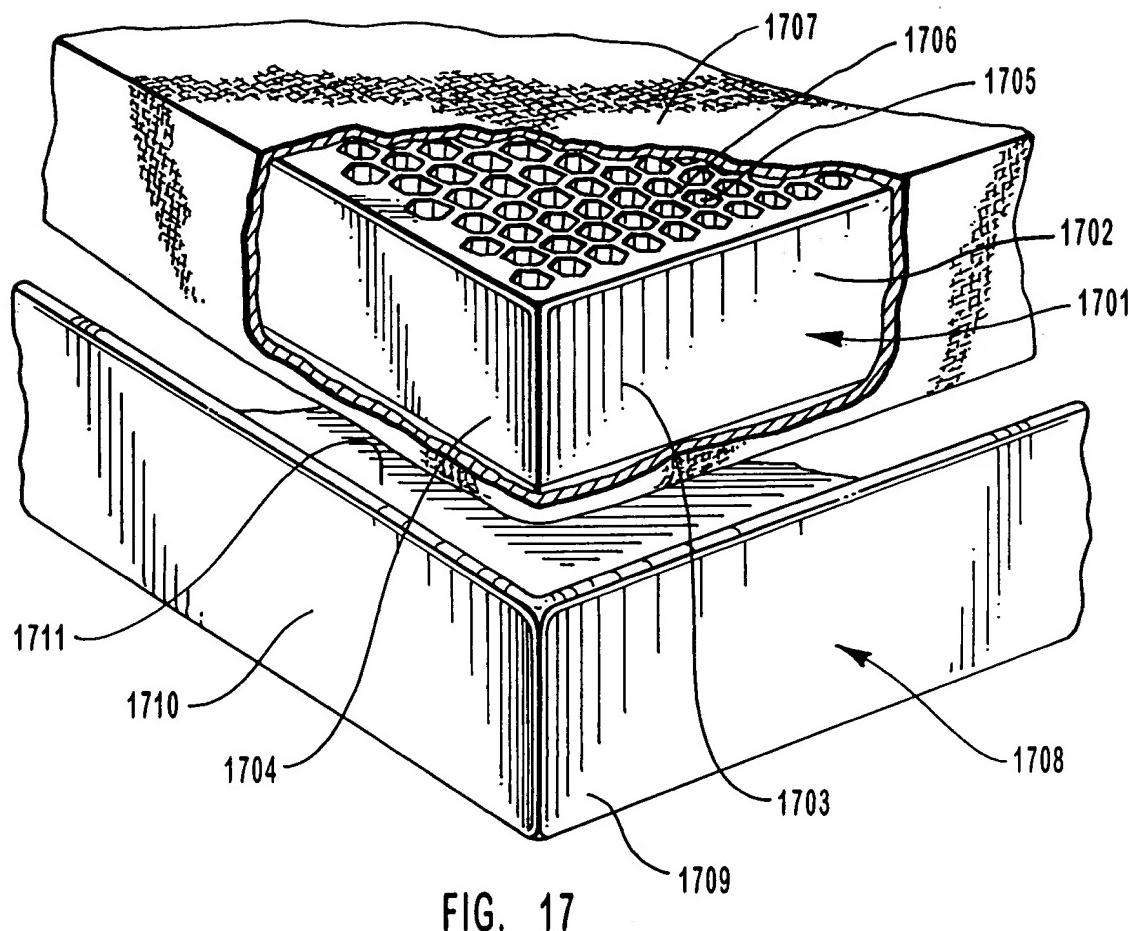


FIG. 16



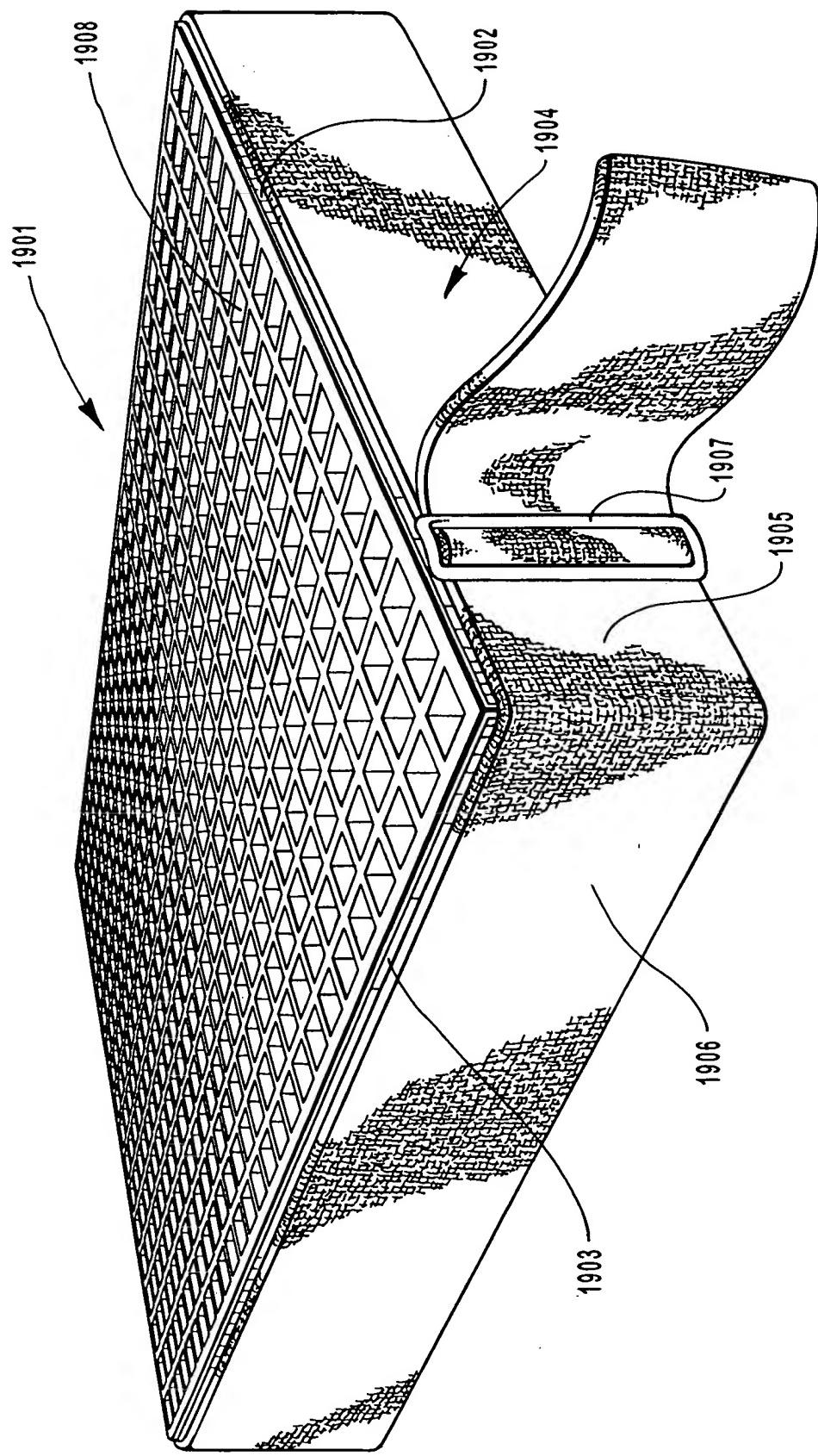


FIG. 19

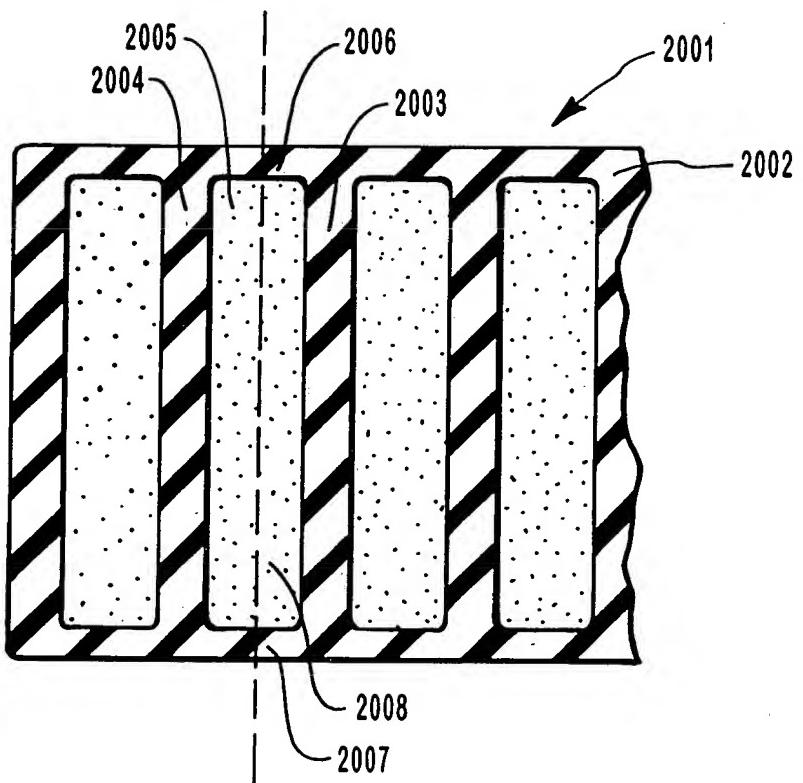


FIG. 20

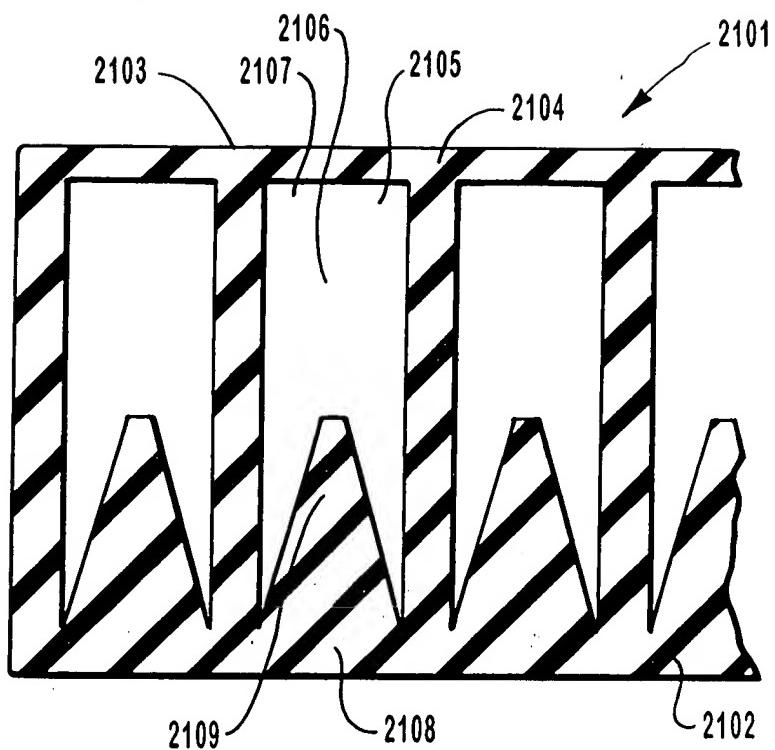


FIG. 21

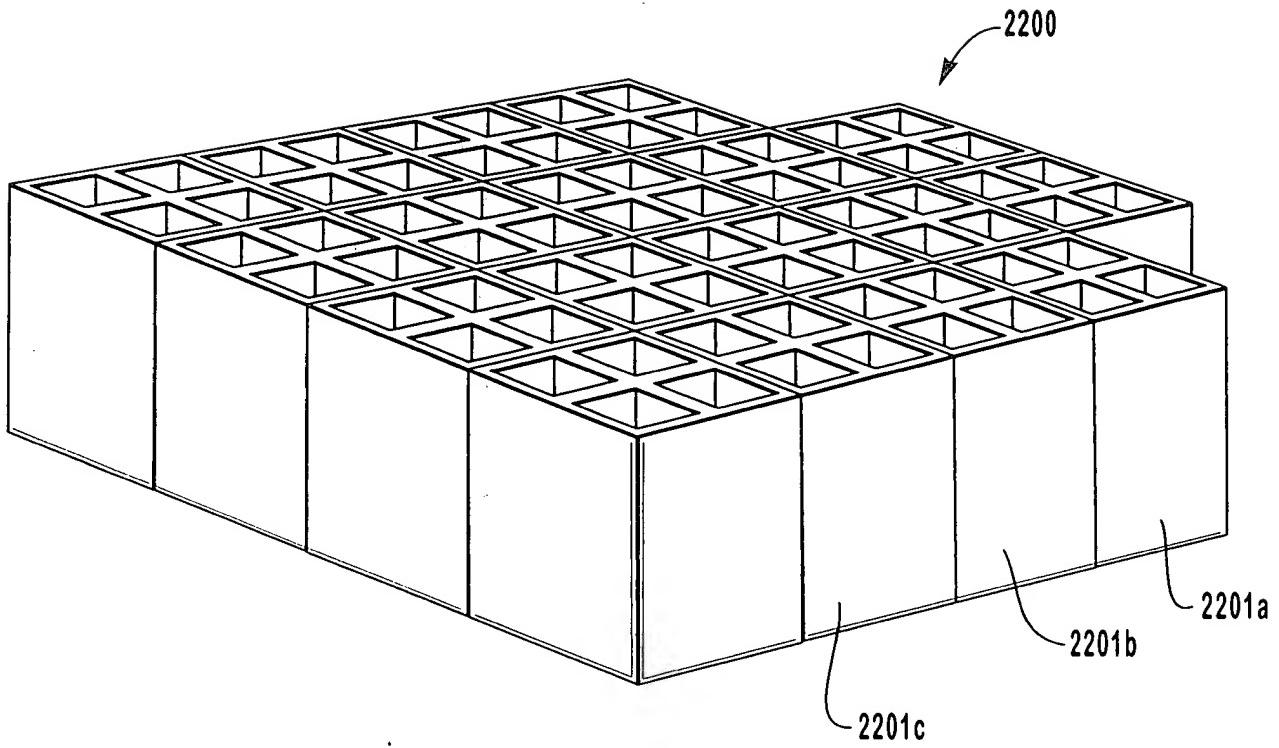


FIG. 22

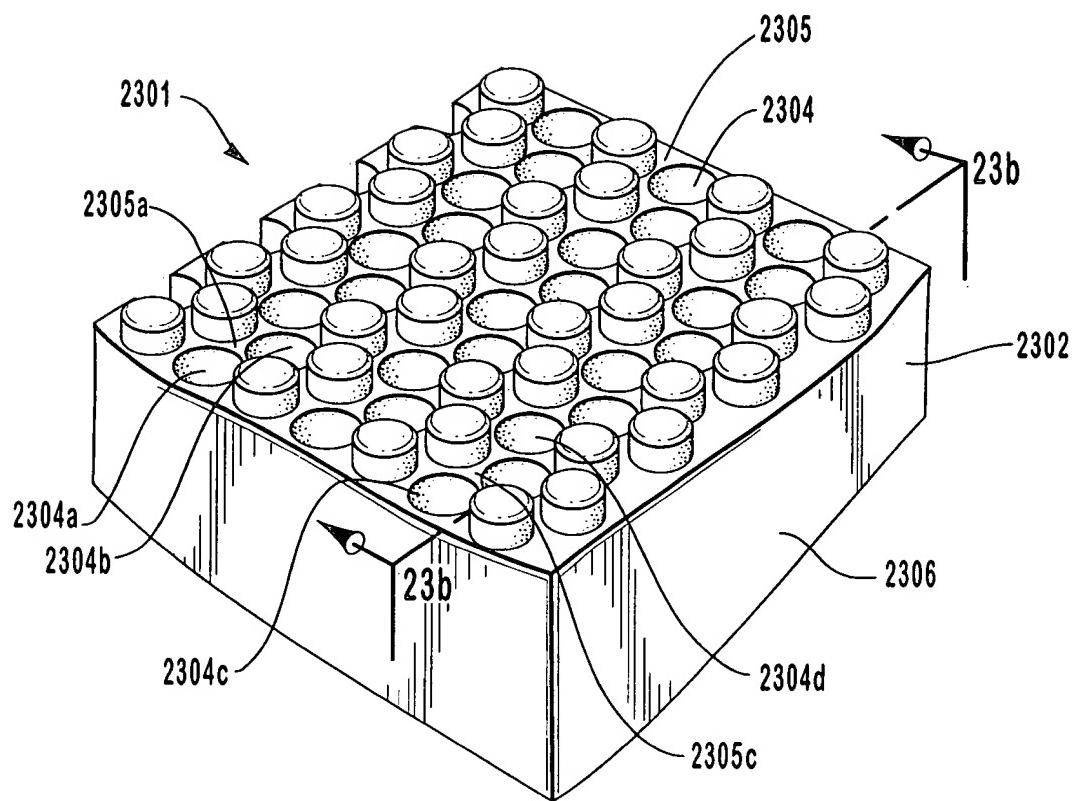


FIG. 23a

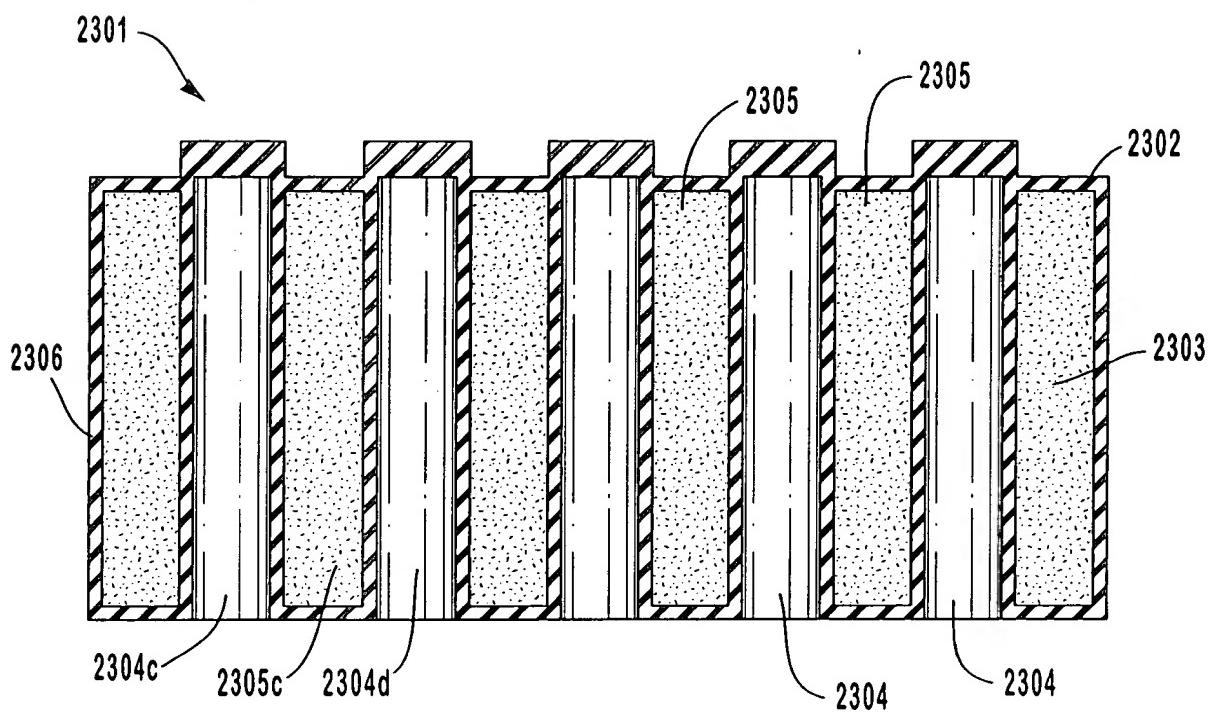


FIG. 23b

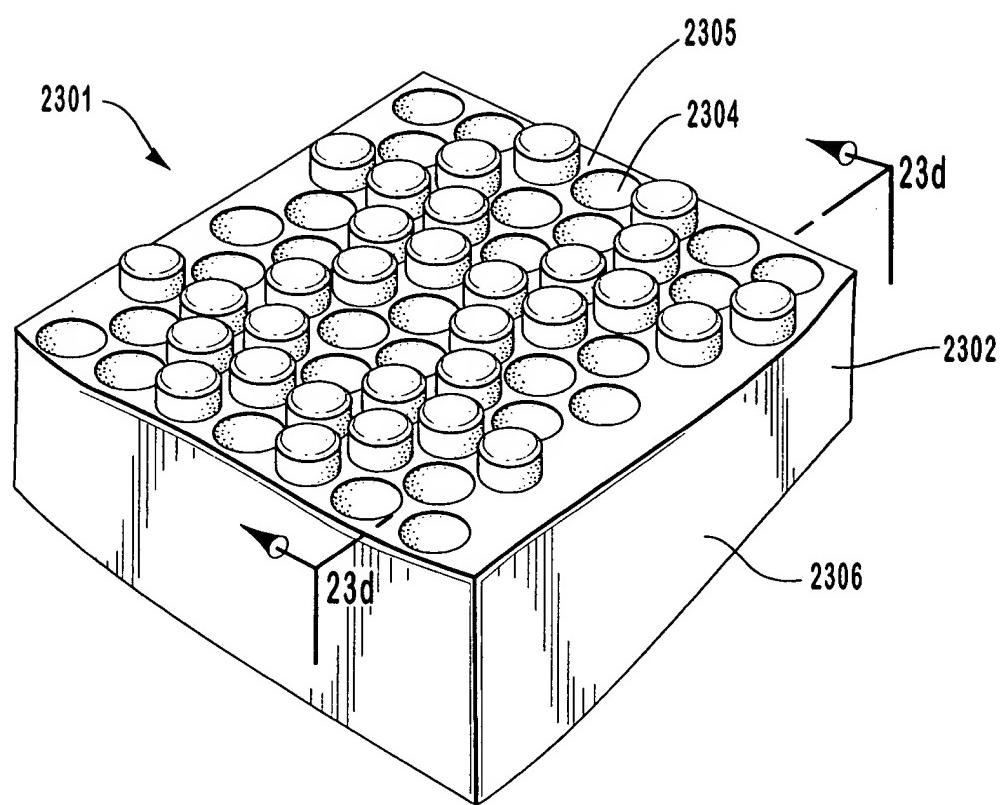


FIG. 23c

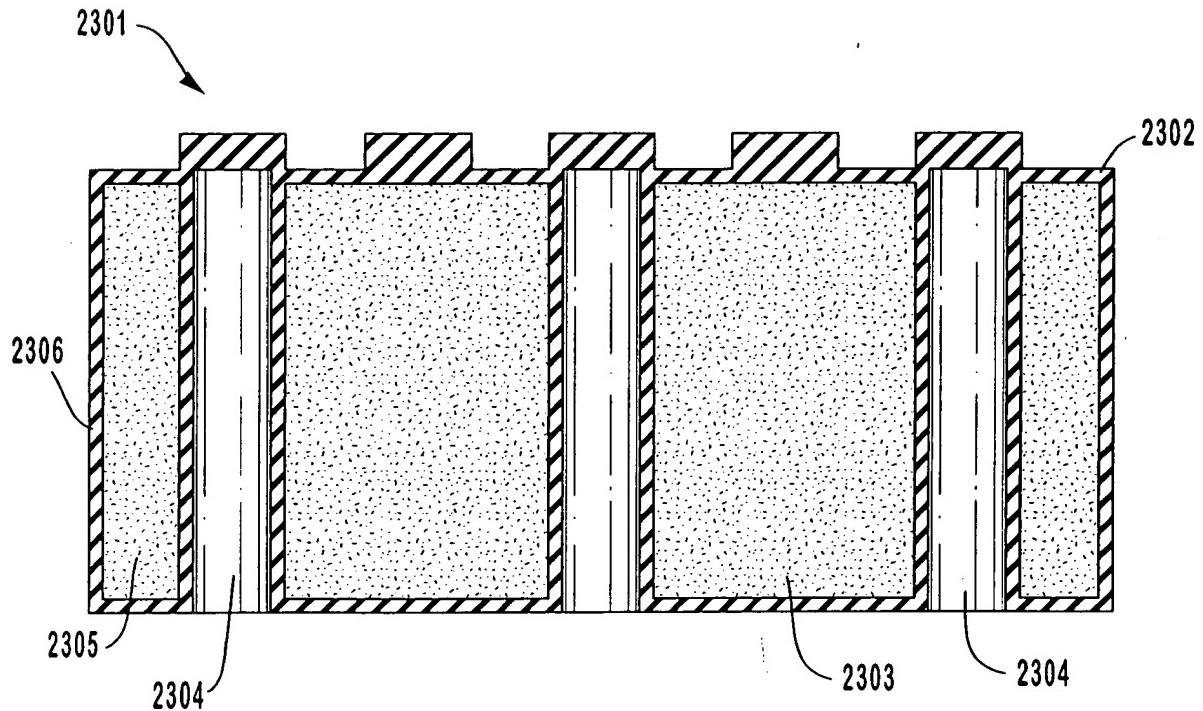


FIG. 23d

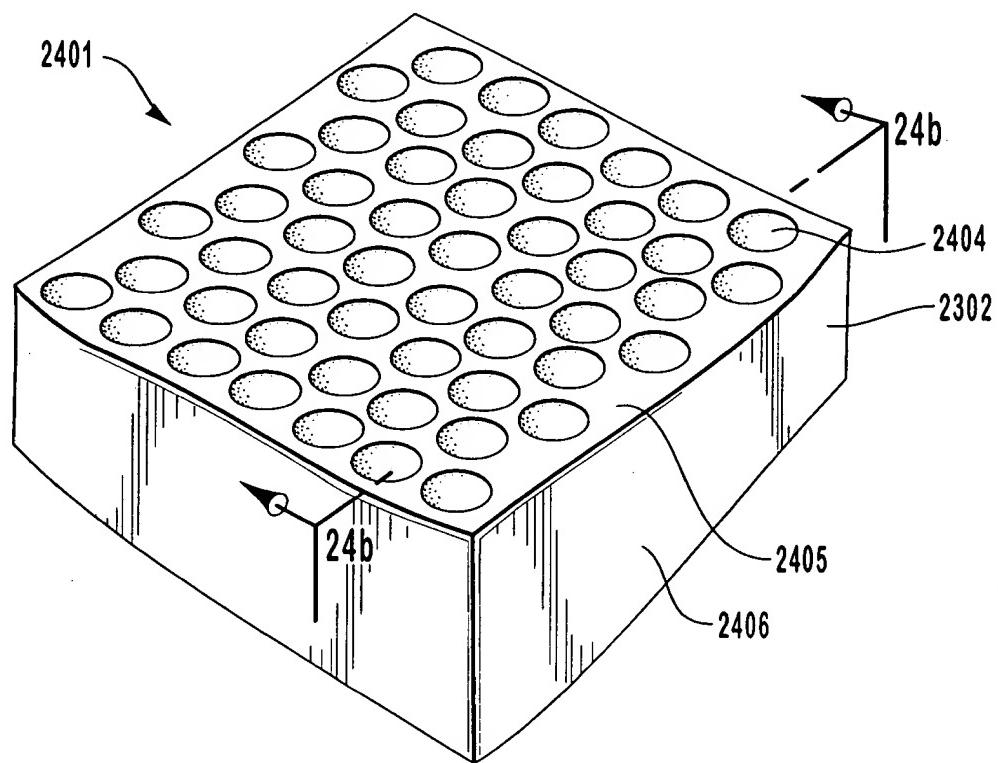


FIG. 24a

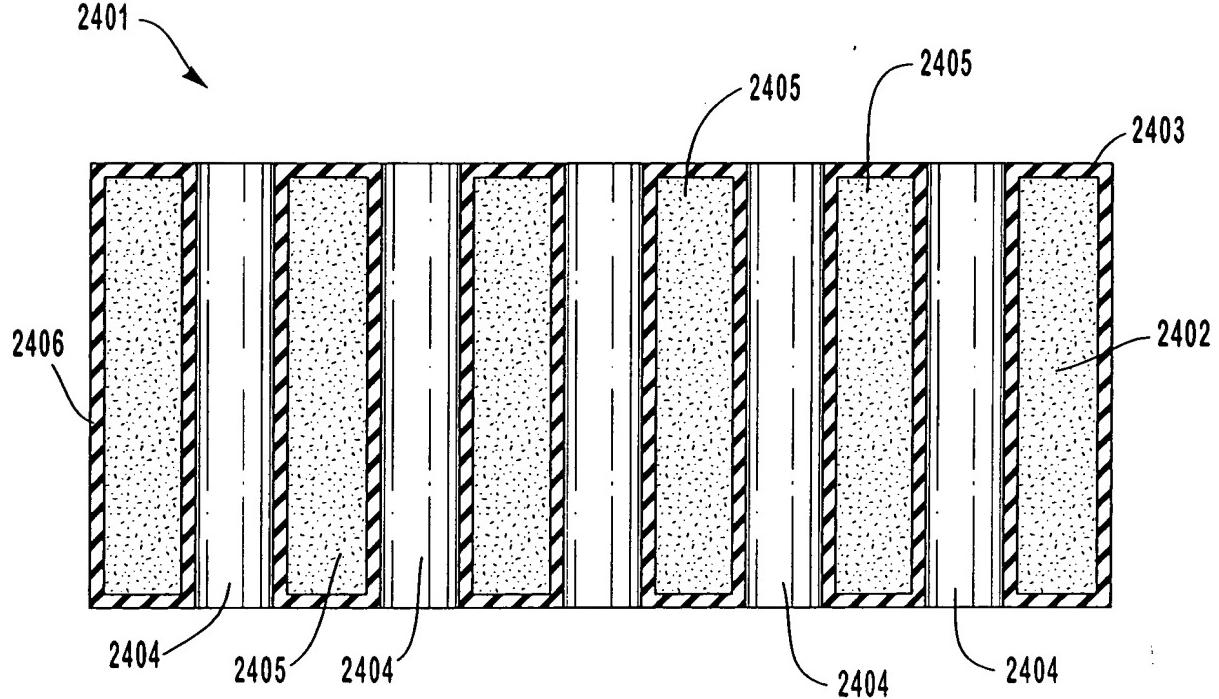


FIG. 24b

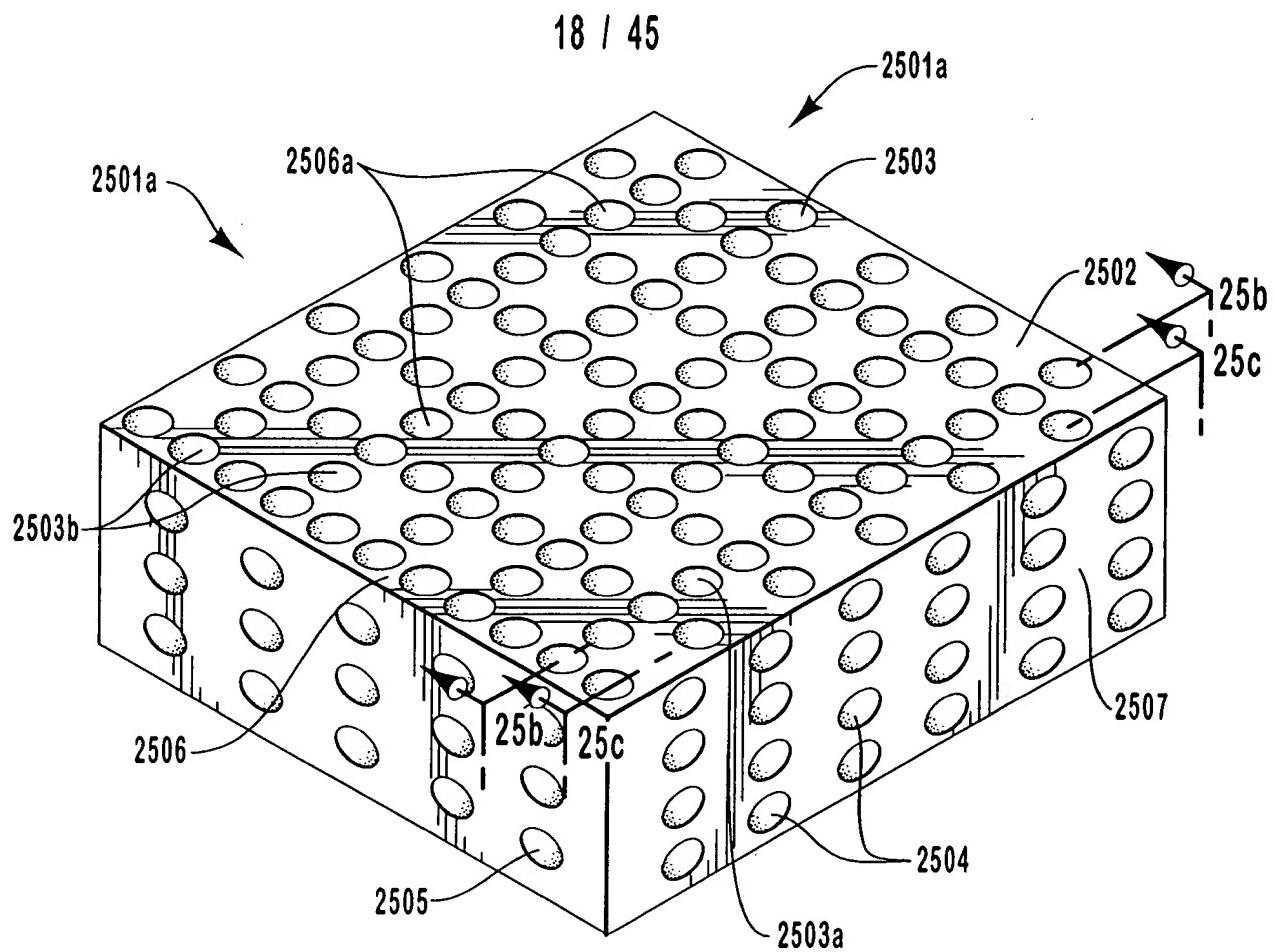


FIG. 25a

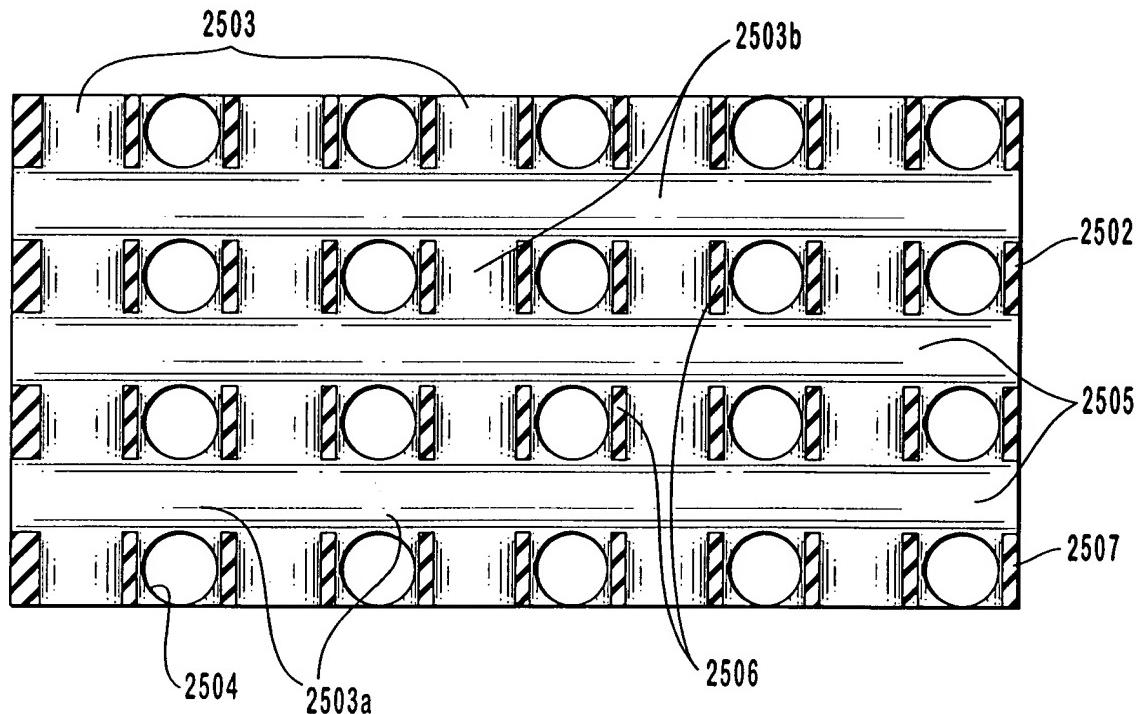


FIG. 25b

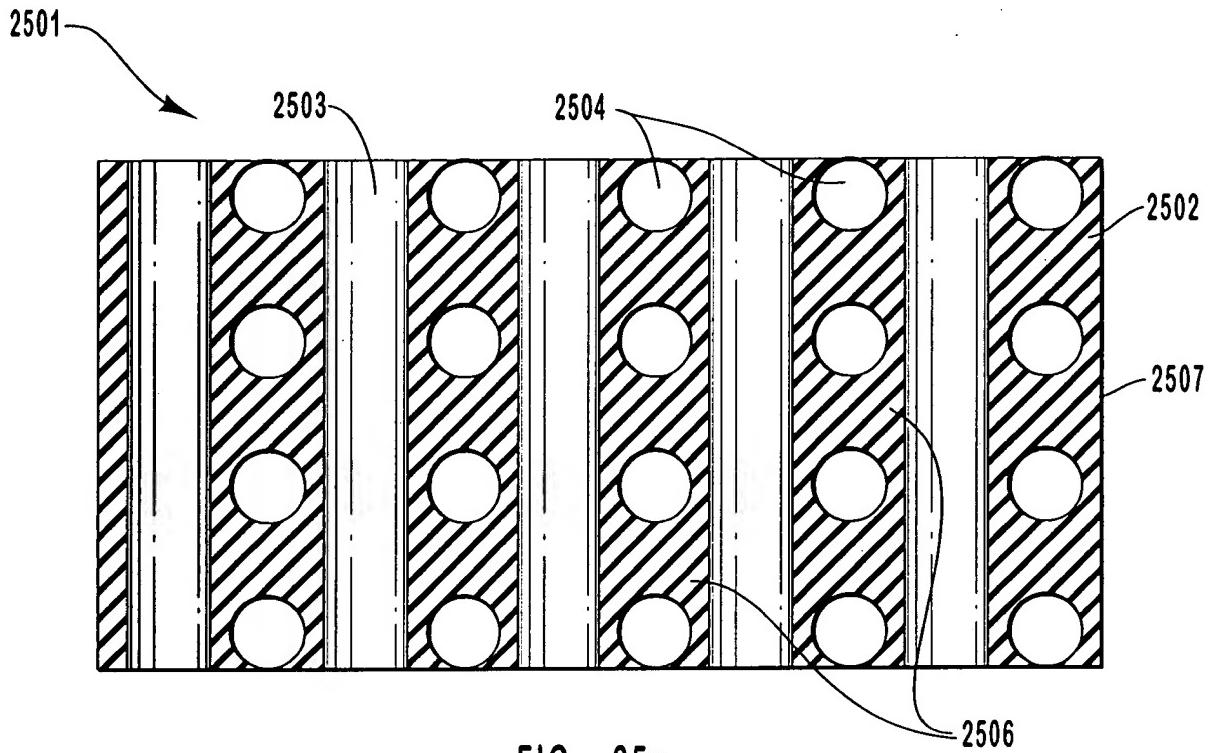
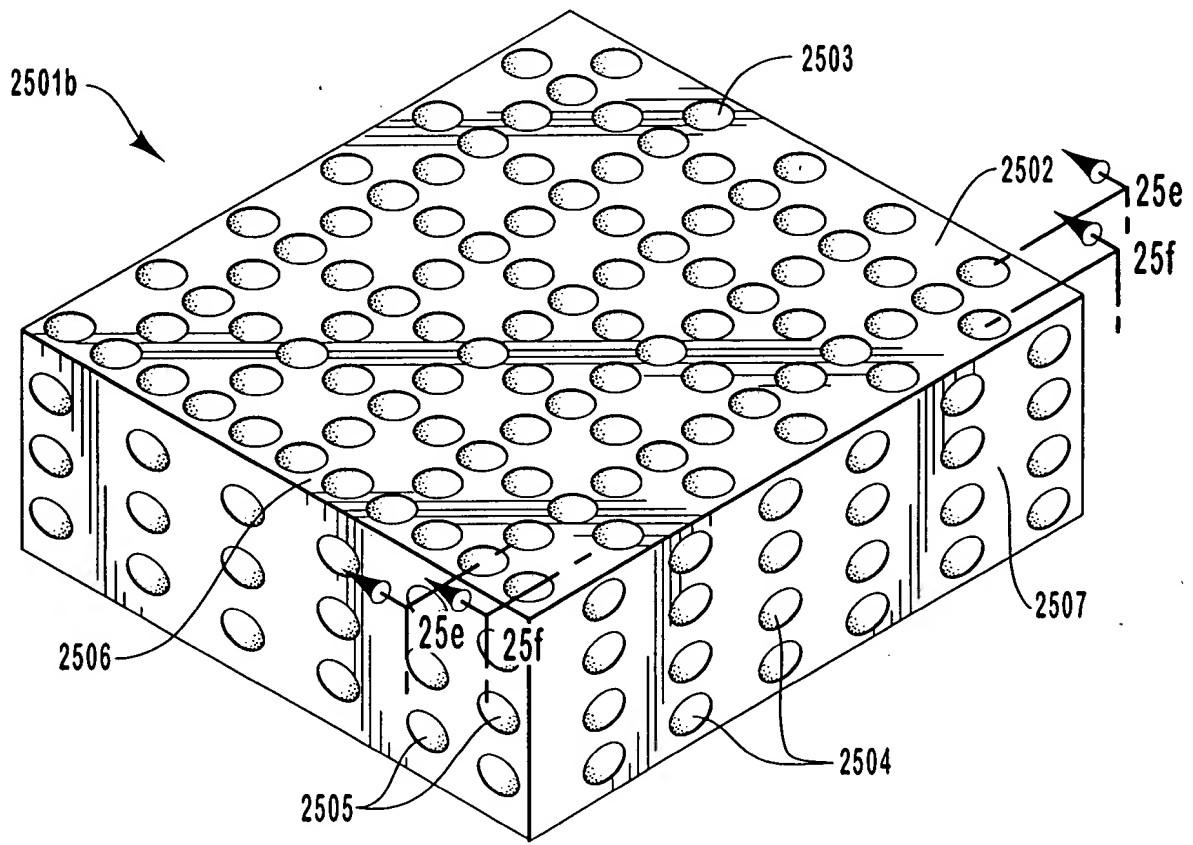


FIG. 25c



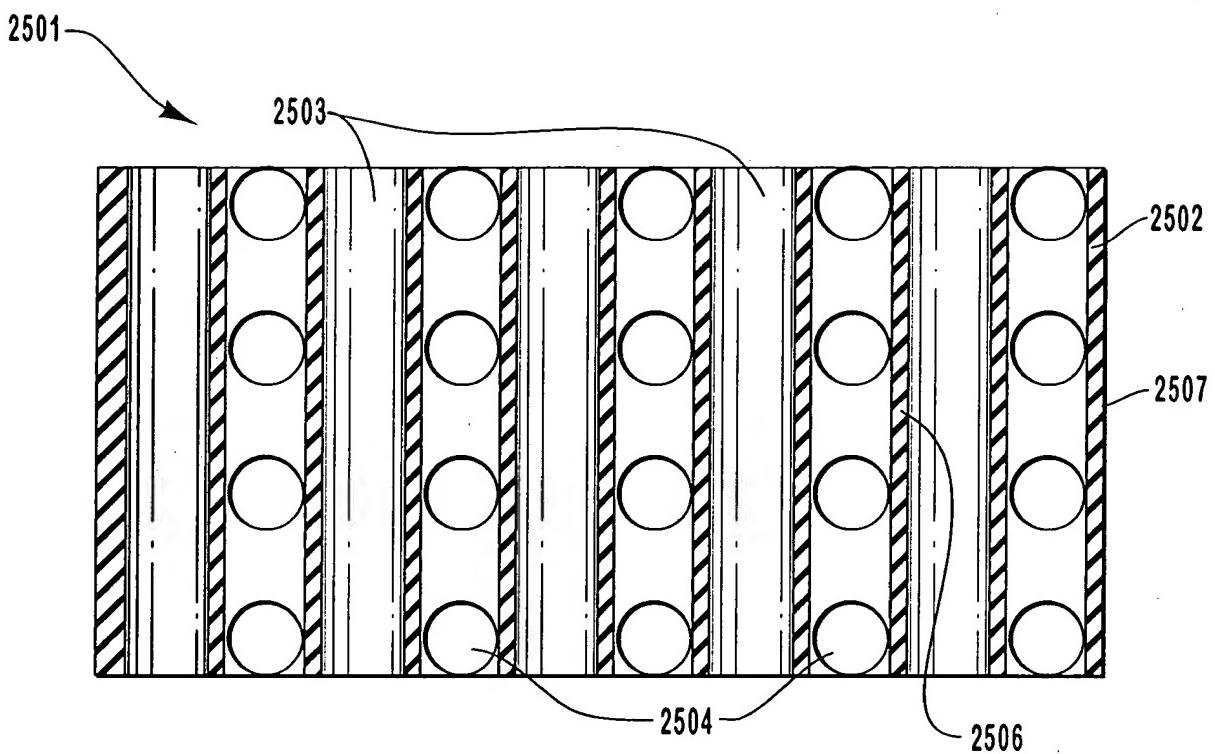


FIG. 25e

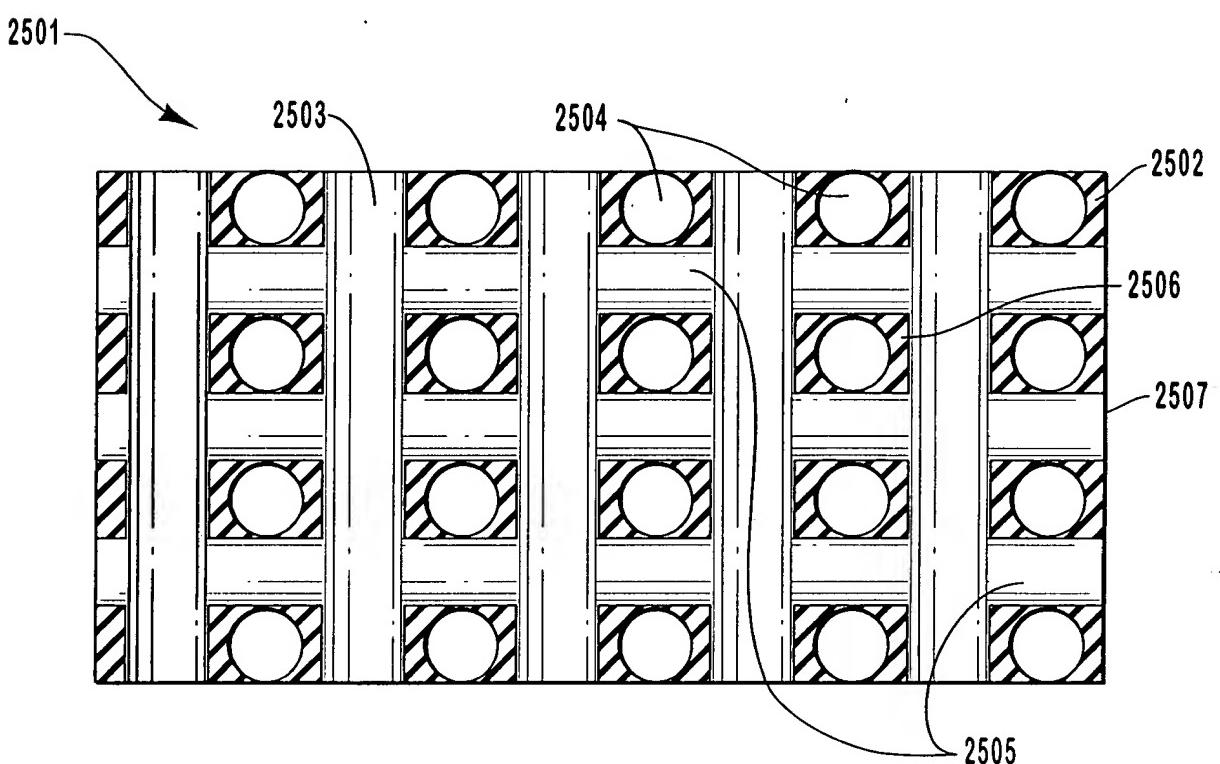


FIG. 25f

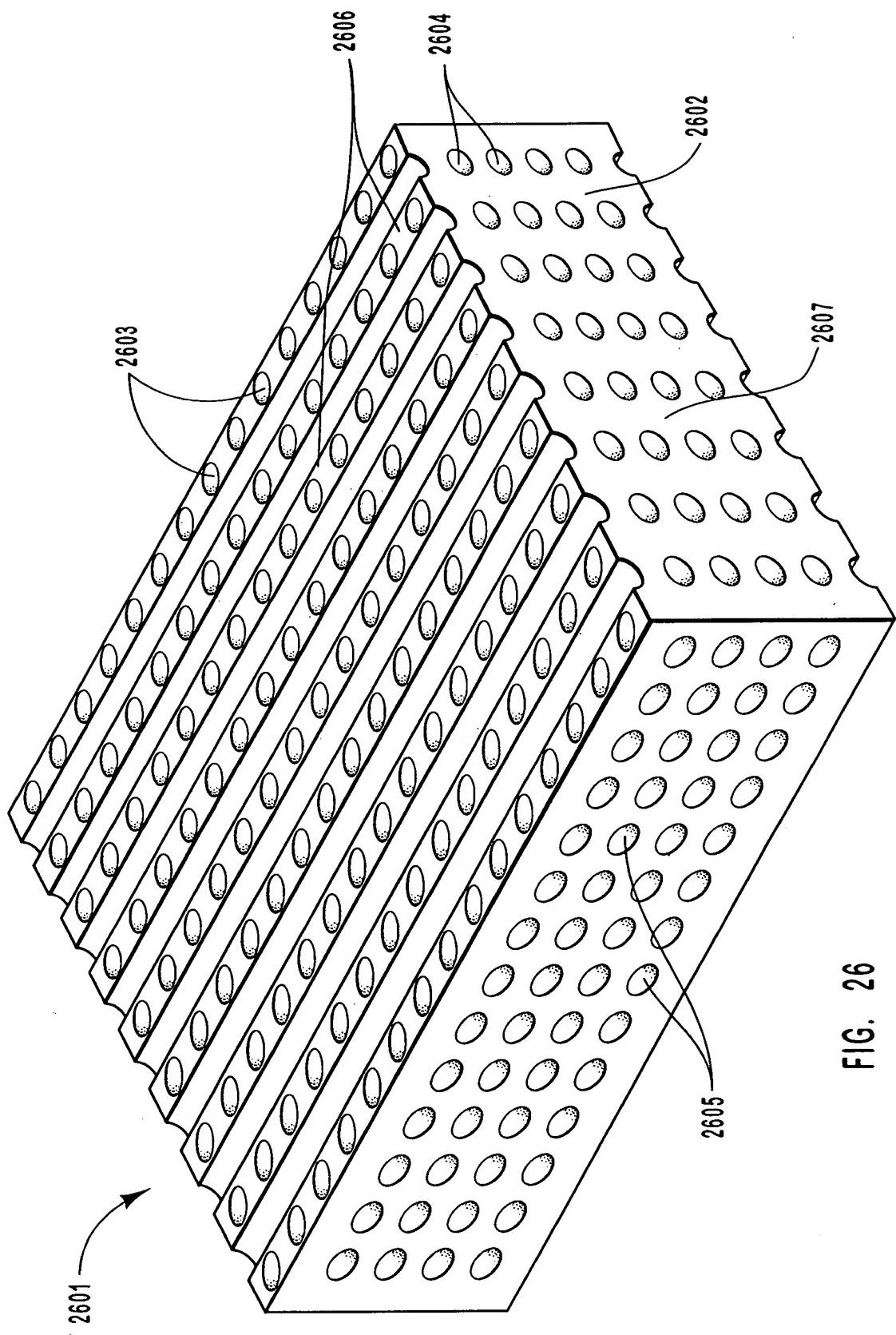


FIG. 26

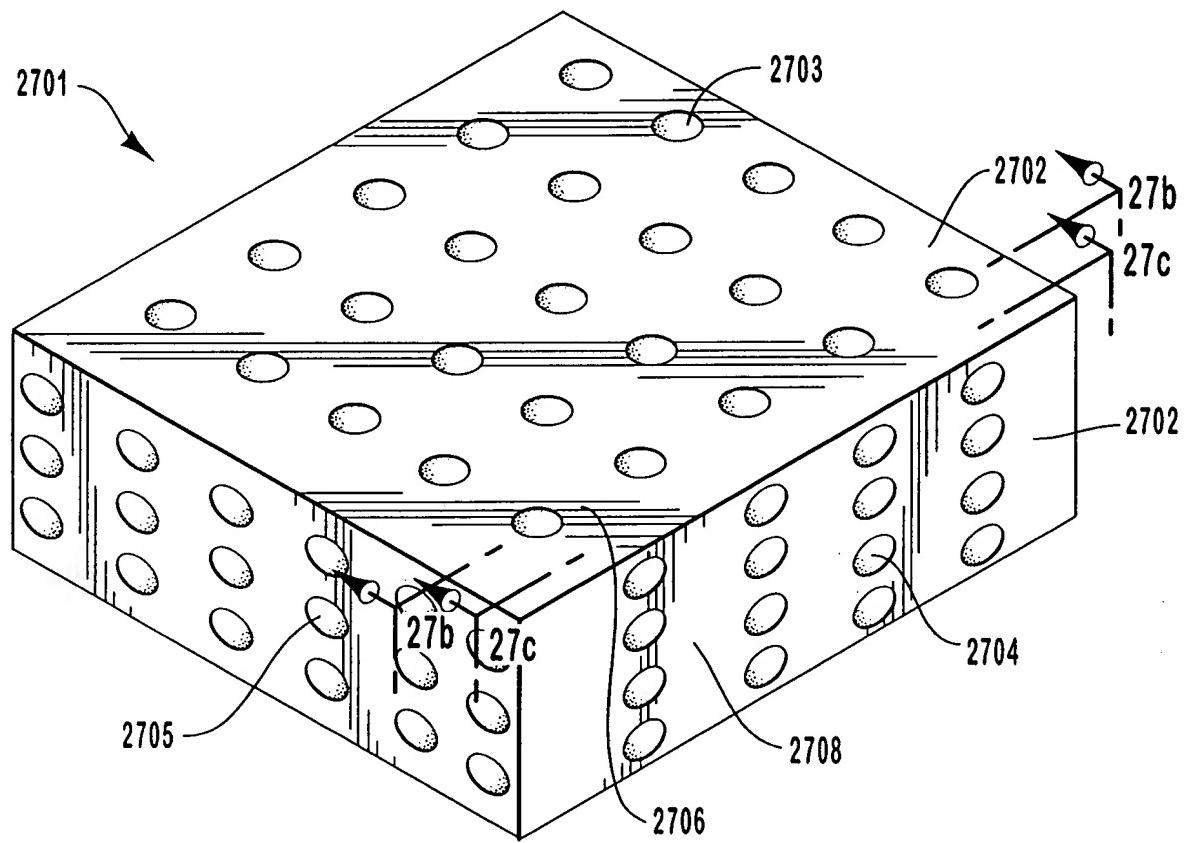


FIG. 27a

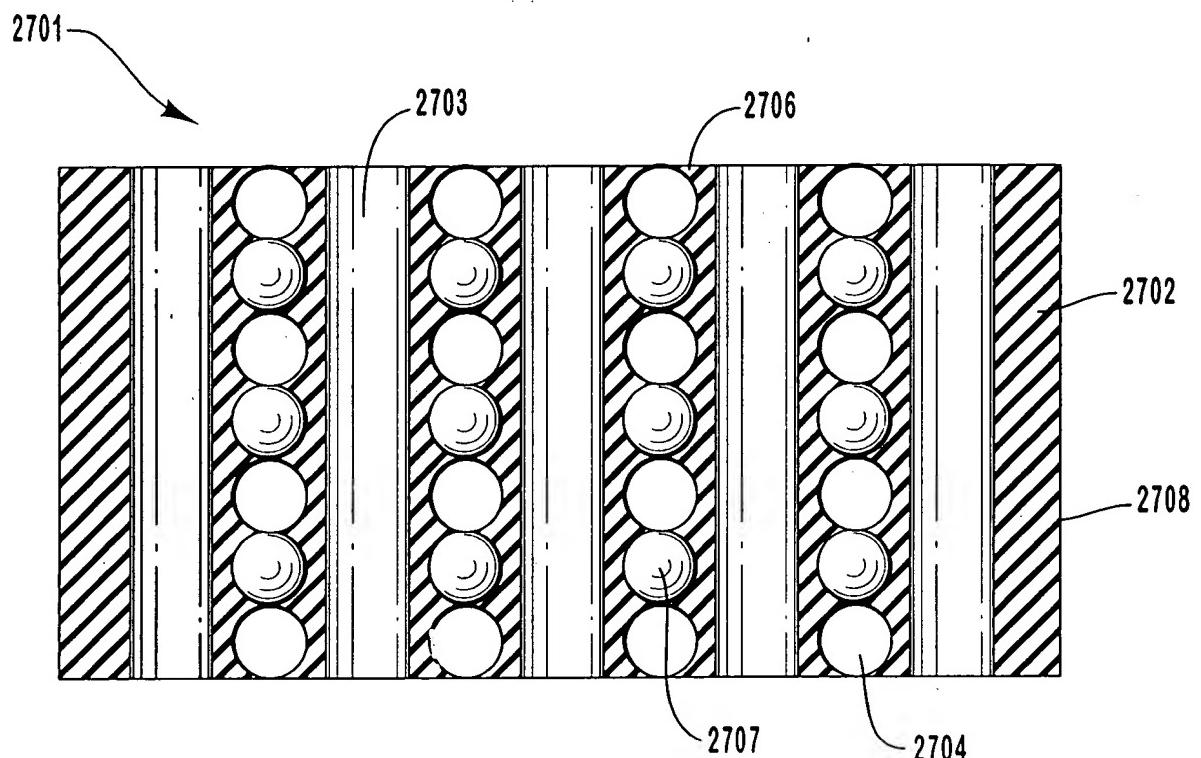


FIG. 27b

FIG. 27c

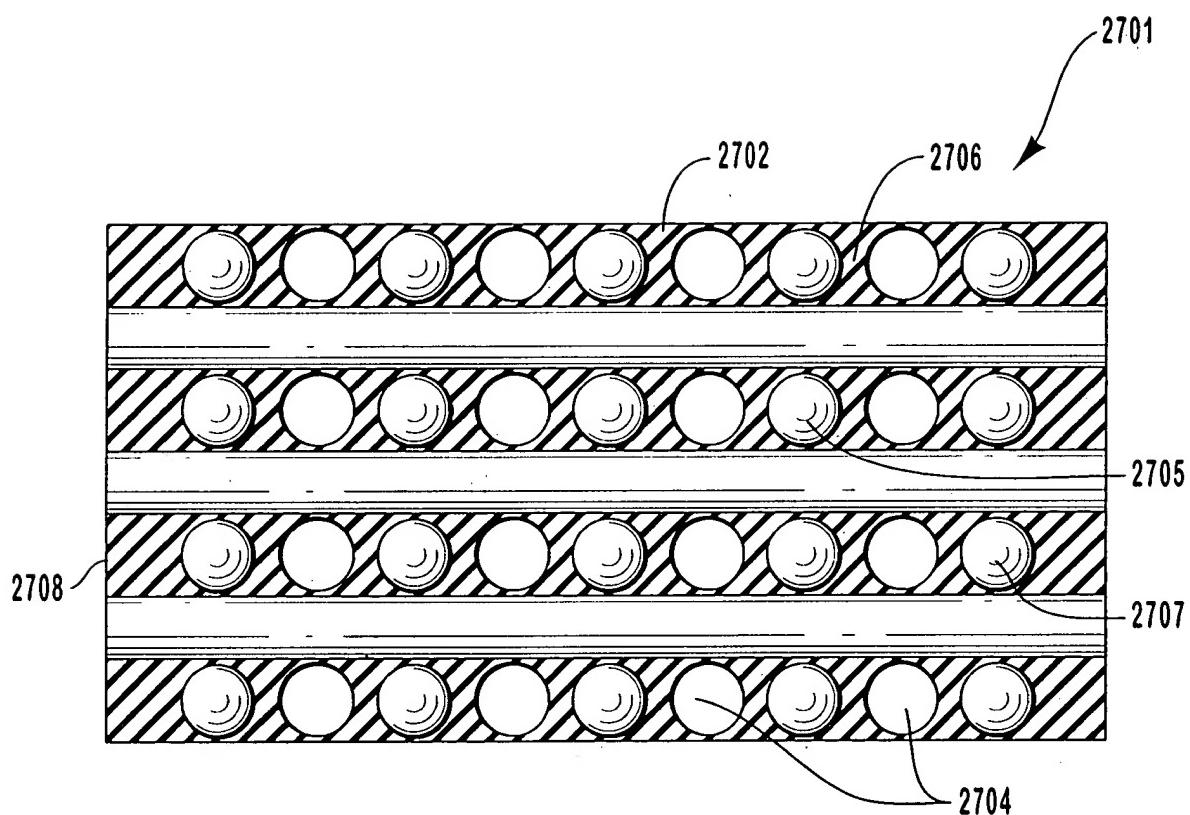


FIG. 27c

50 30 50 50 30 30 30

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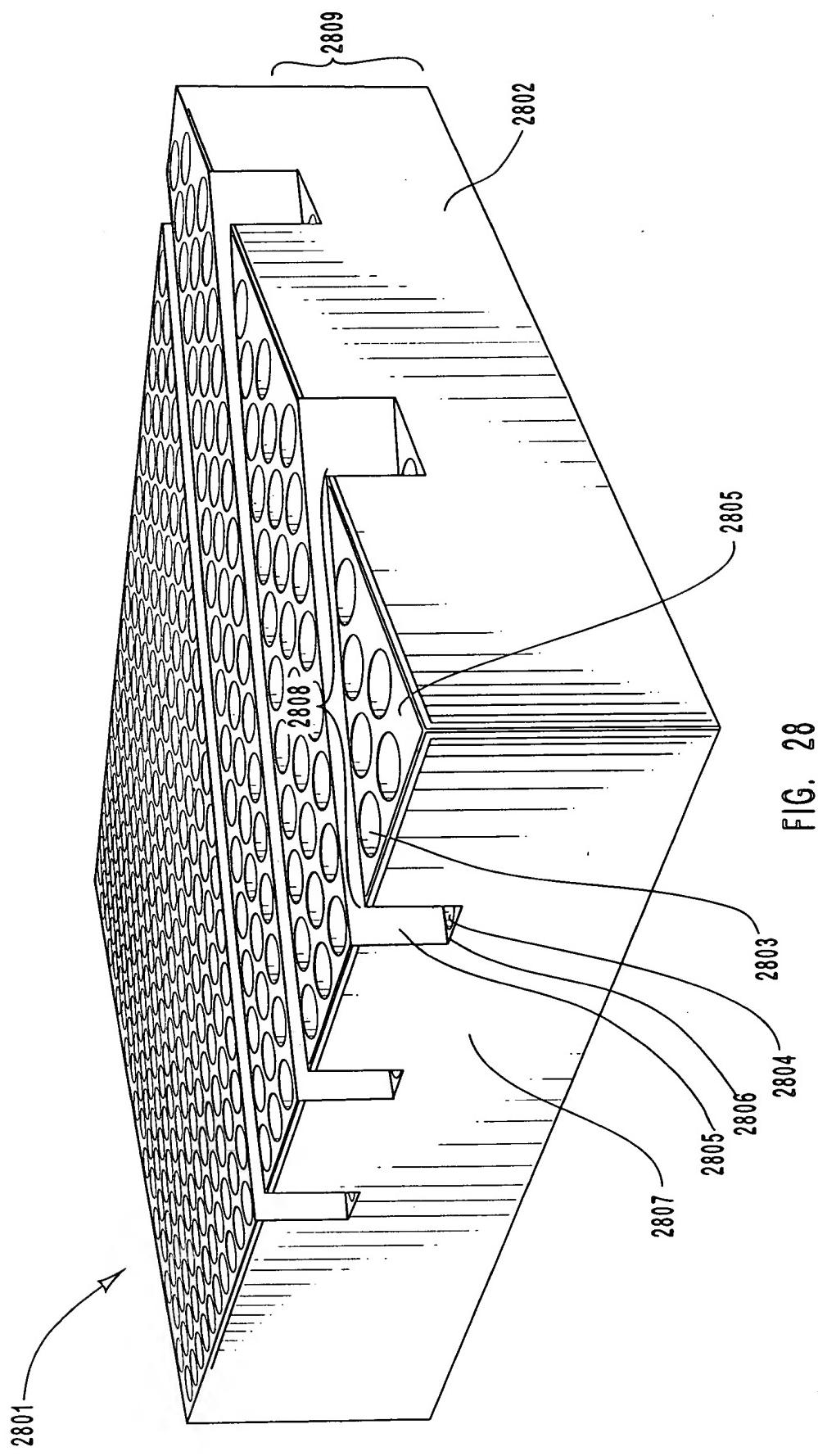
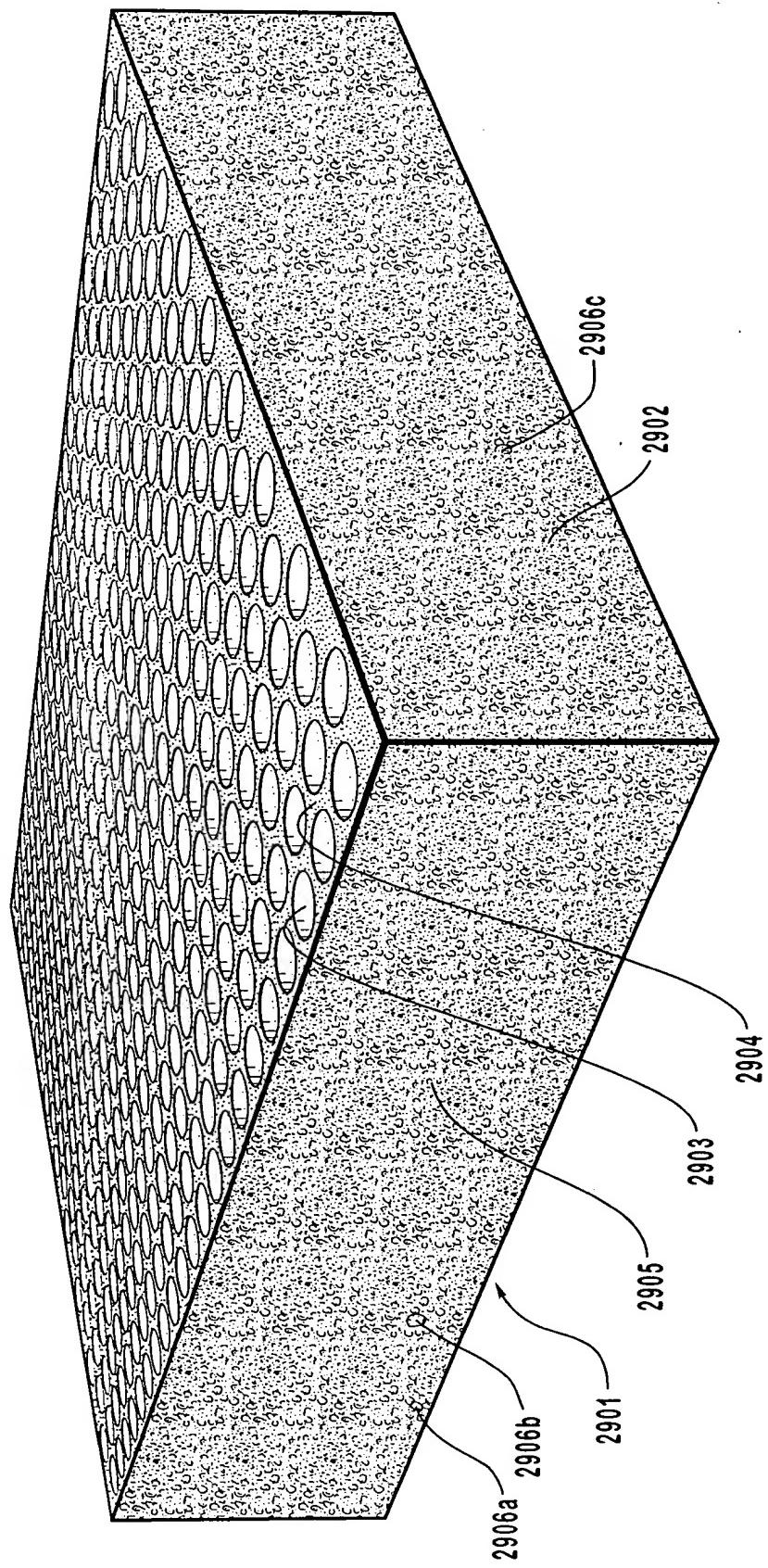


FIG. 28

FIG. 29



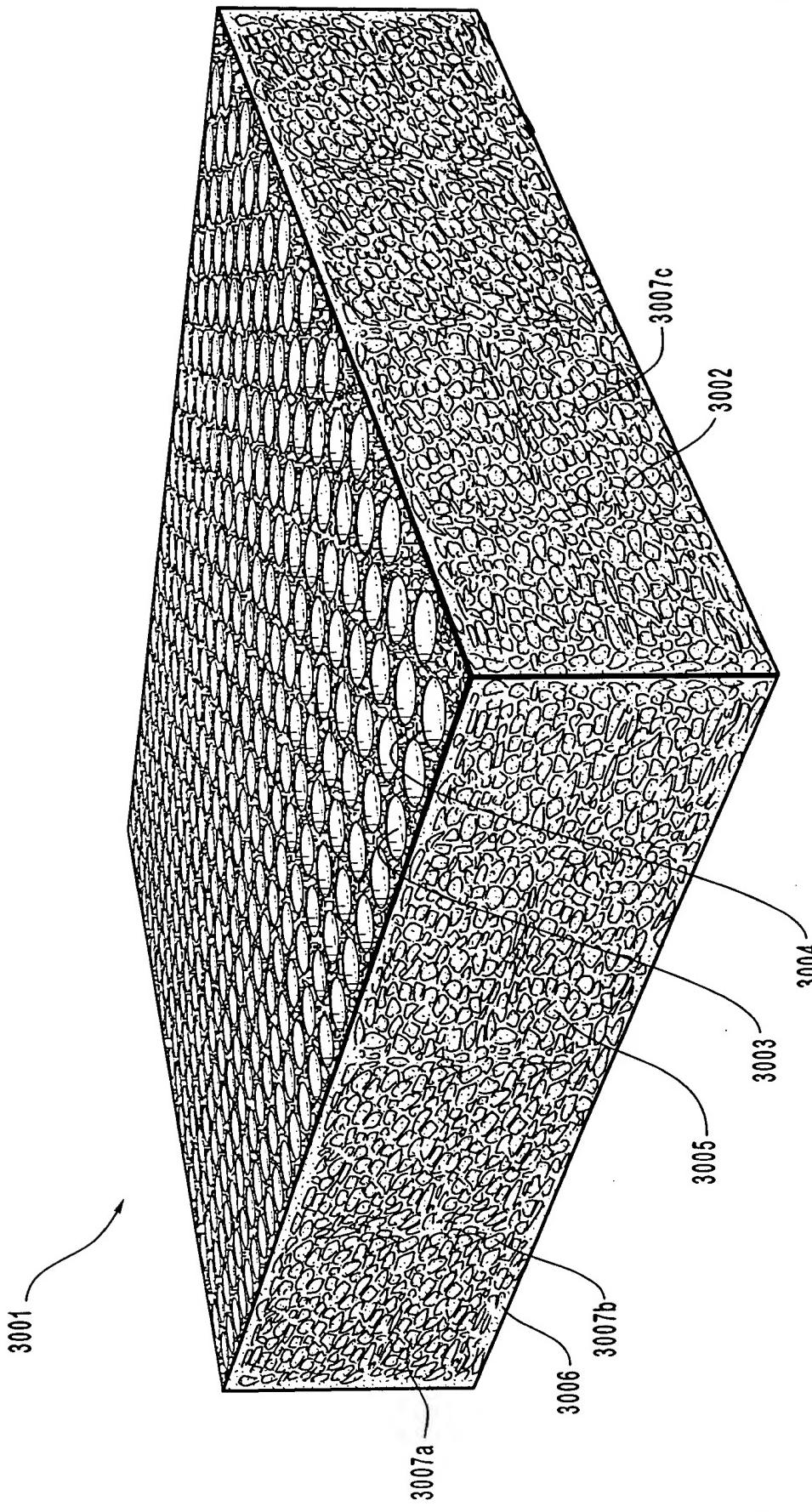


FIG. 30a

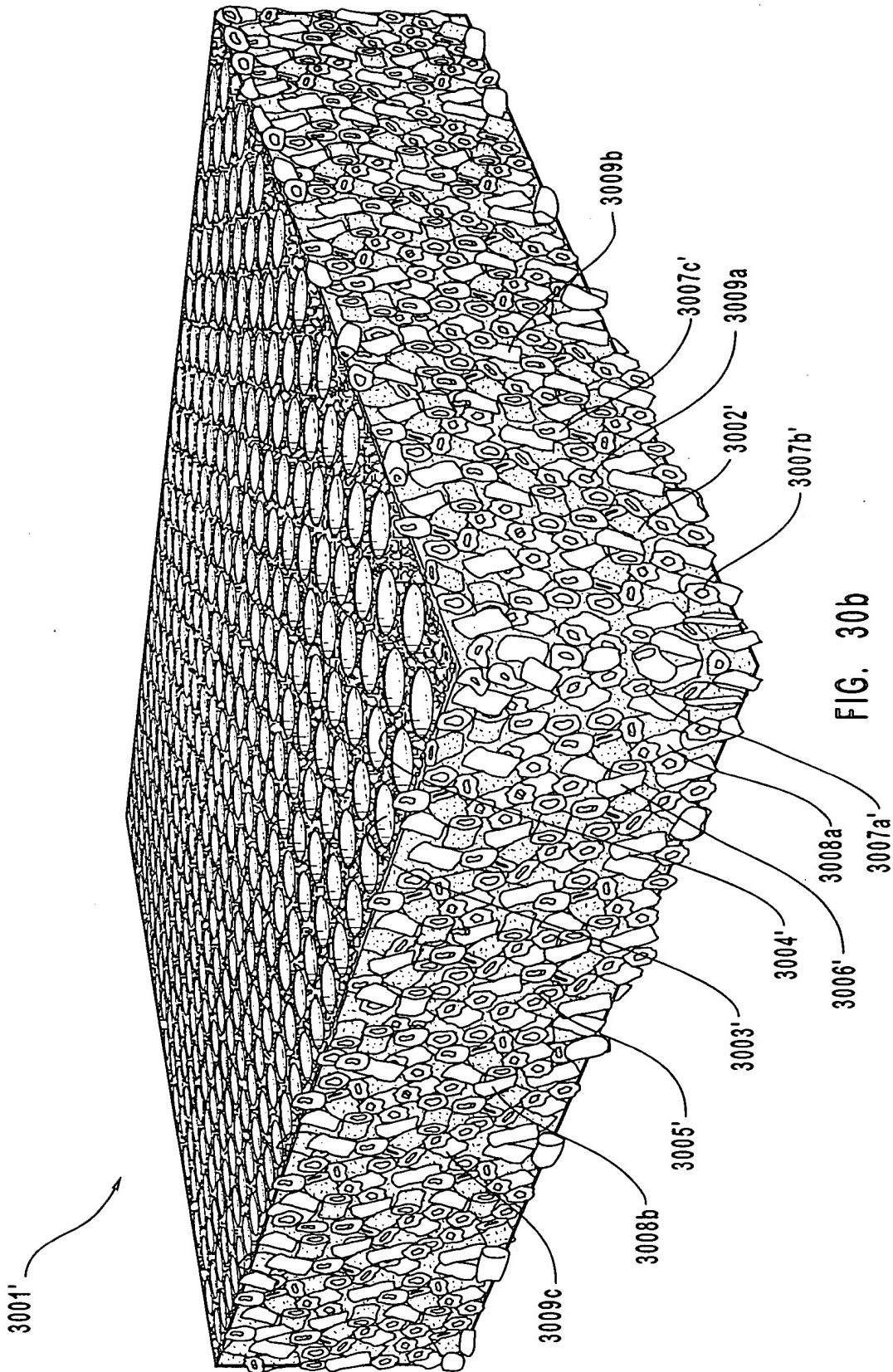


FIG. 30b

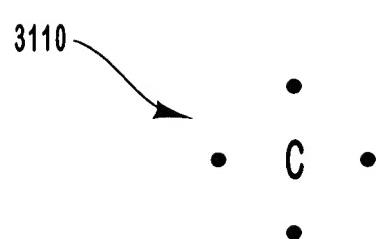


FIG. 31a

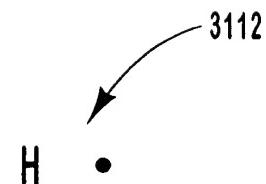


FIG. 31b

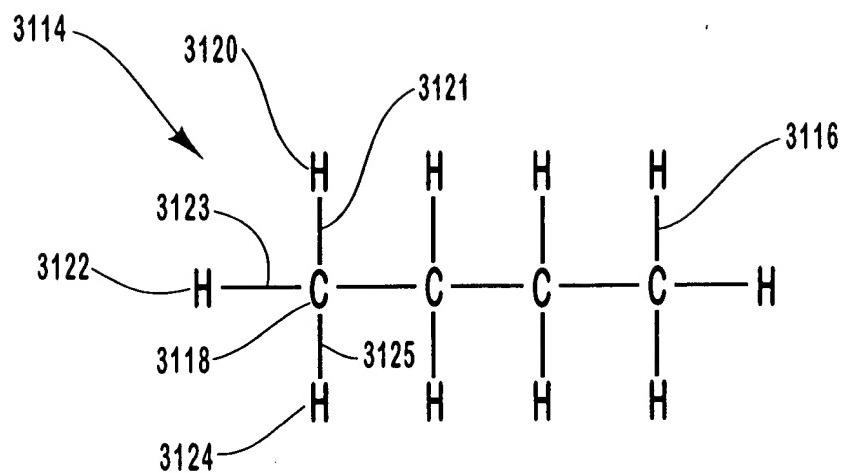


FIG. 31c

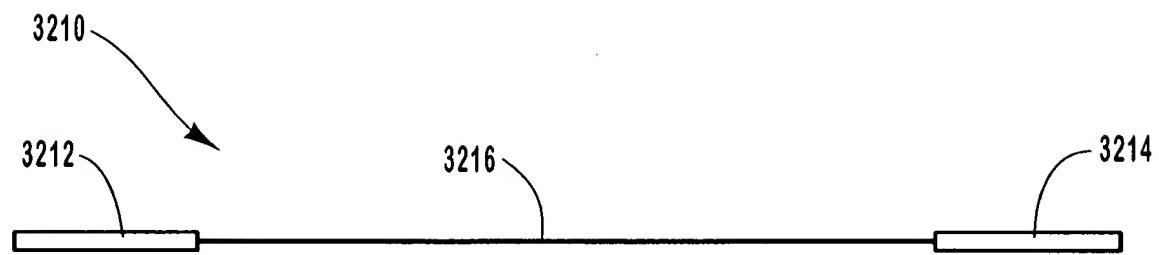


FIG. 32a

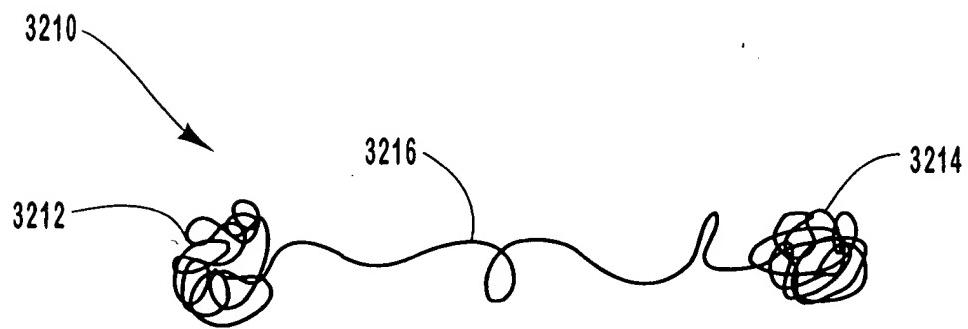


FIG. 32b

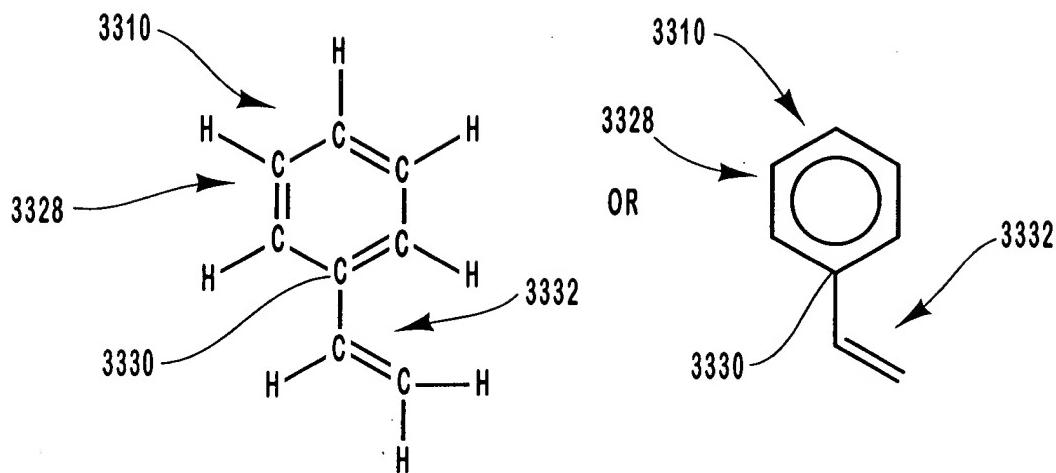


FIG. 33a

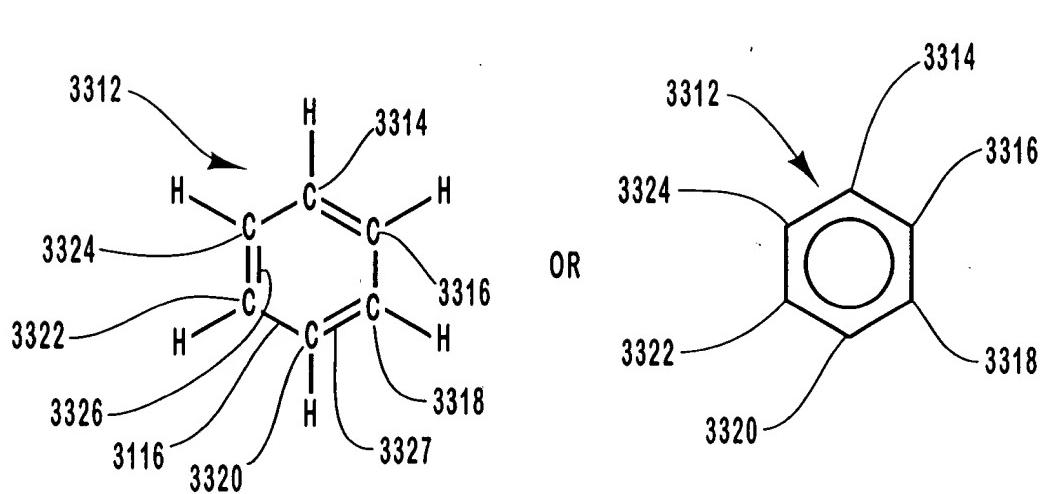


FIG. 33b

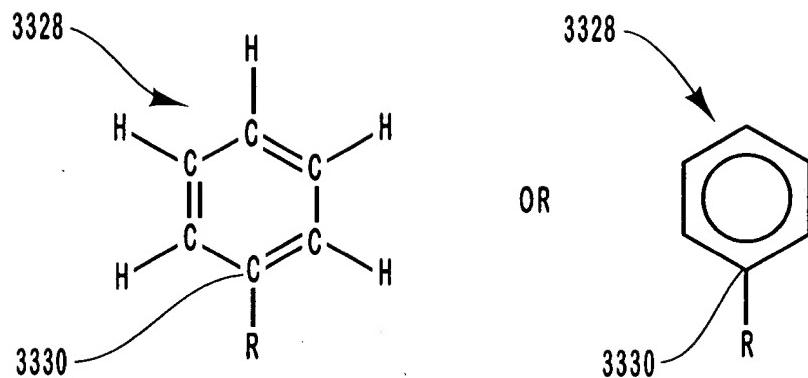


FIG. 33c

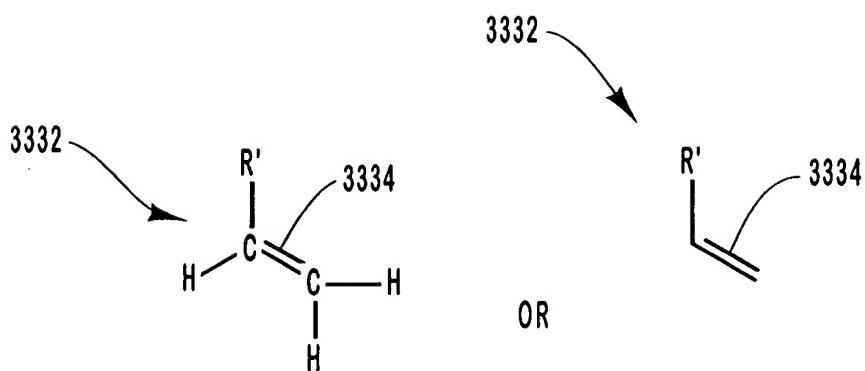


FIG. 33d

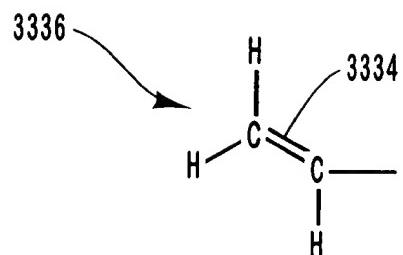


FIG. 33e

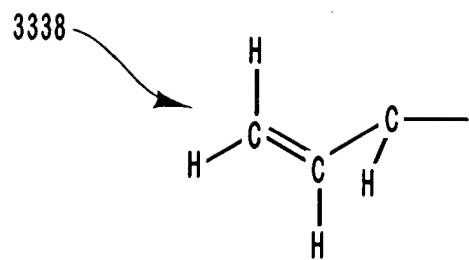


FIG. 33f

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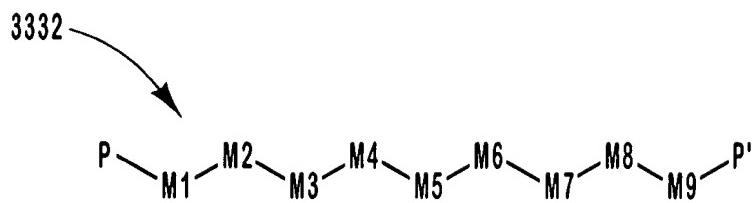


FIG. 34a

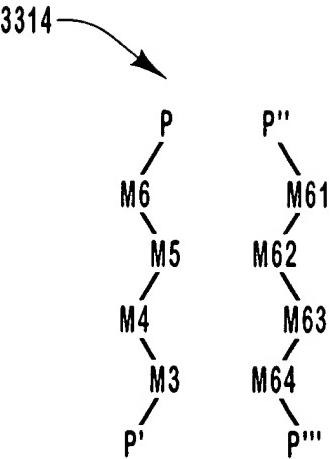
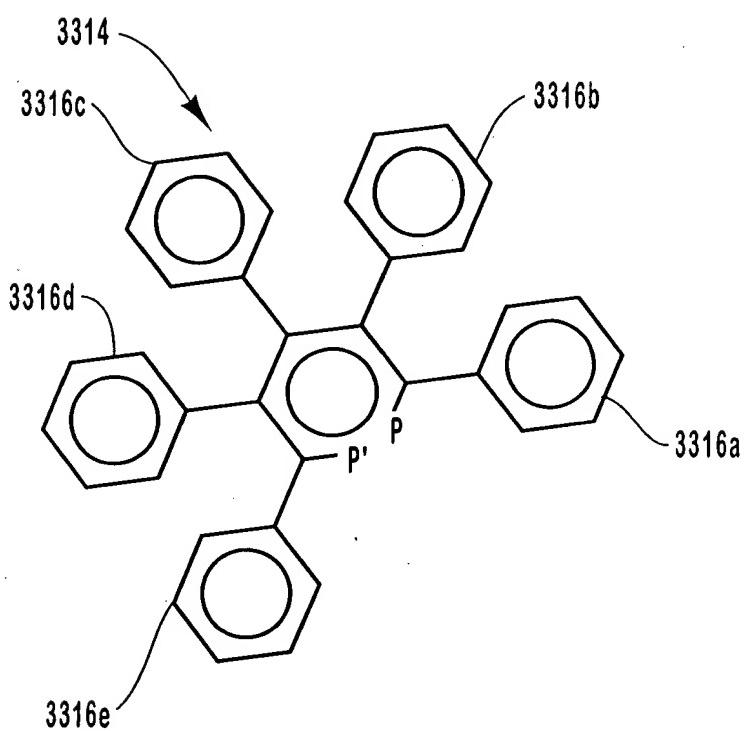


FIG. 34b

FIG. 34c

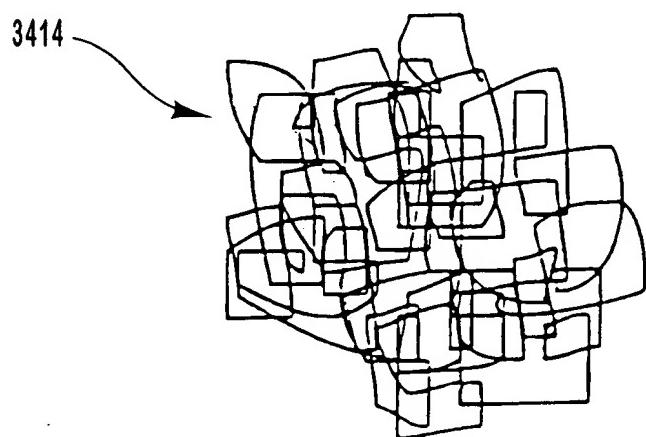


FIG. 34d

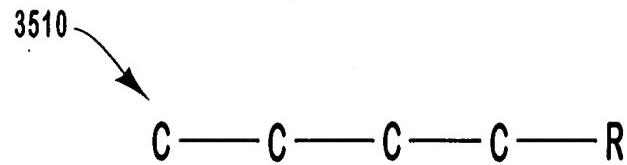


FIG. 35a

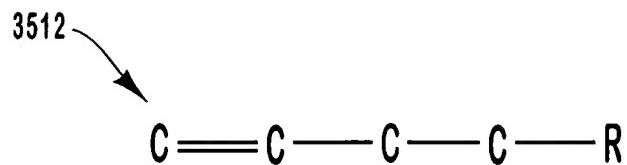


FIG. 35b

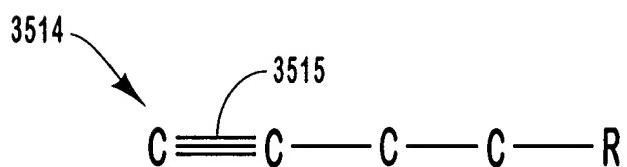


FIG. 35c

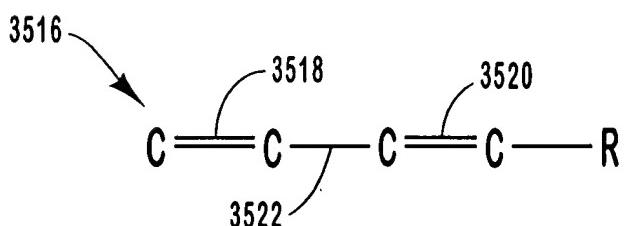


FIG. 35d

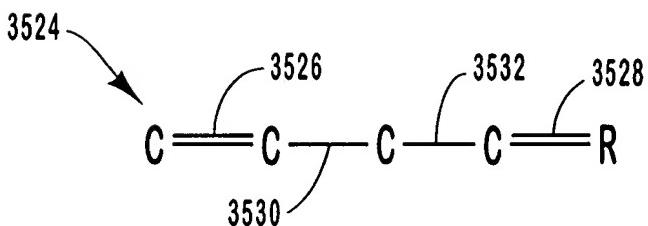


FIG. 35e

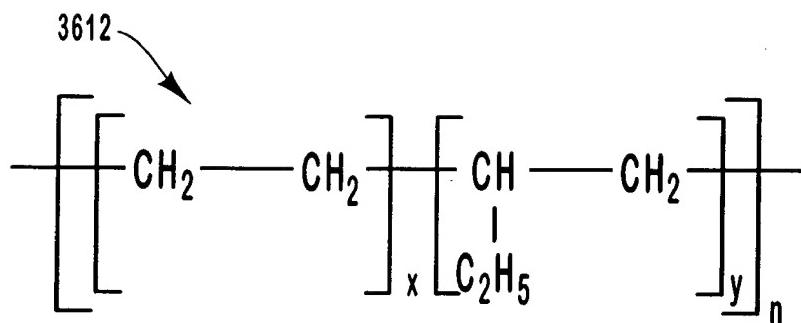


FIG. 36a

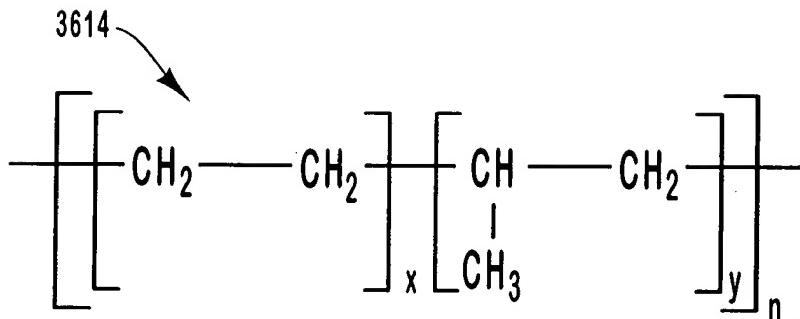


FIG. 36b

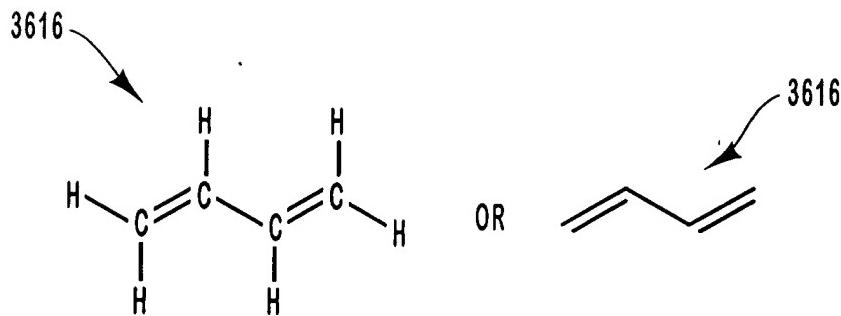


FIG. 36c

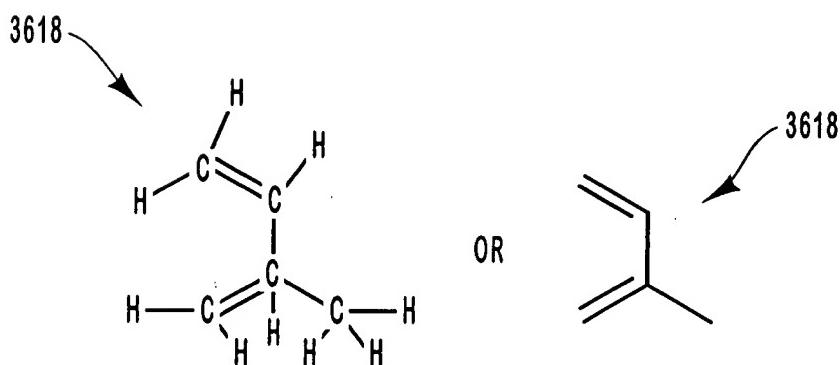


FIG. 36d

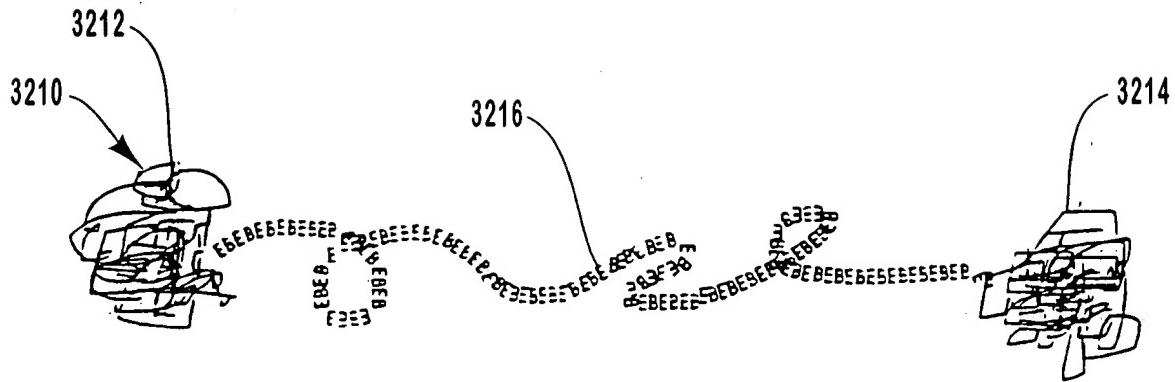


FIG. 37a

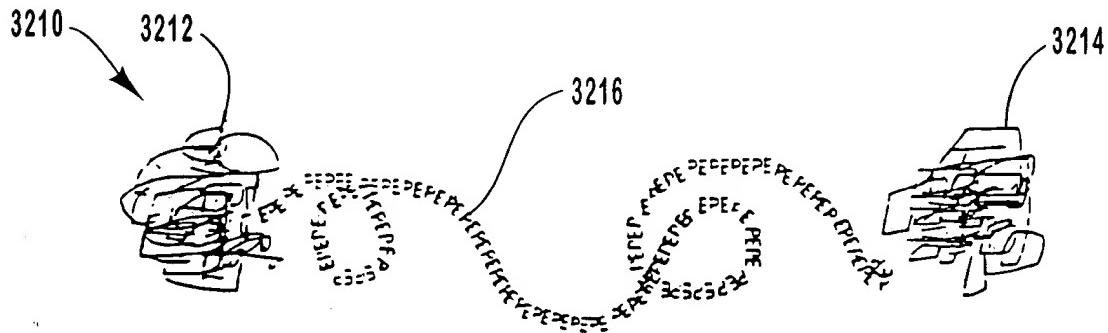


FIG. 37b

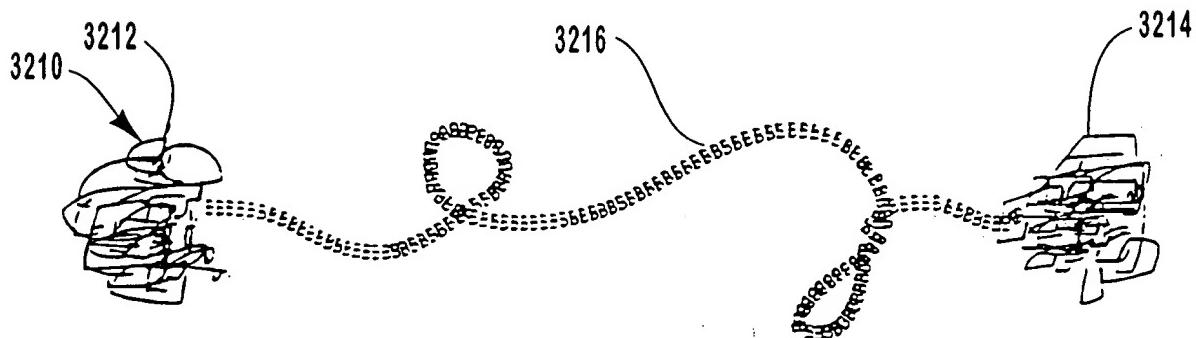


FIG. 37c

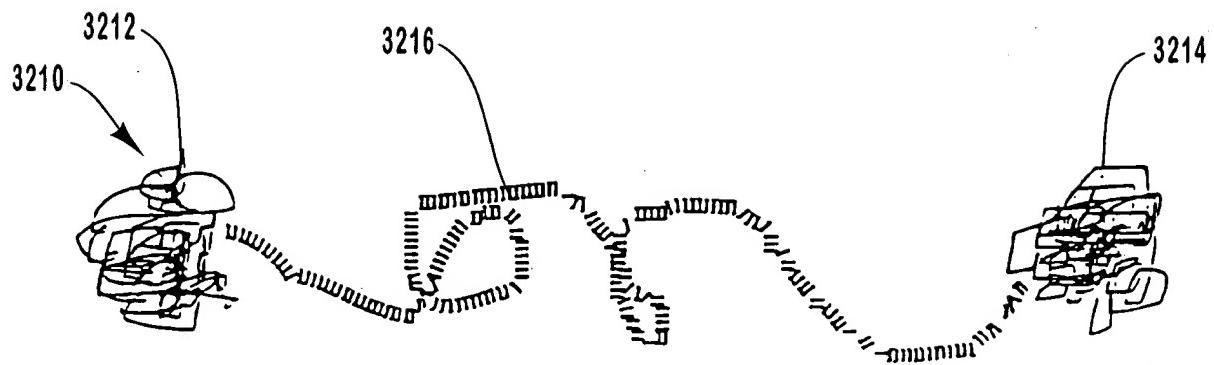


FIG. 37d

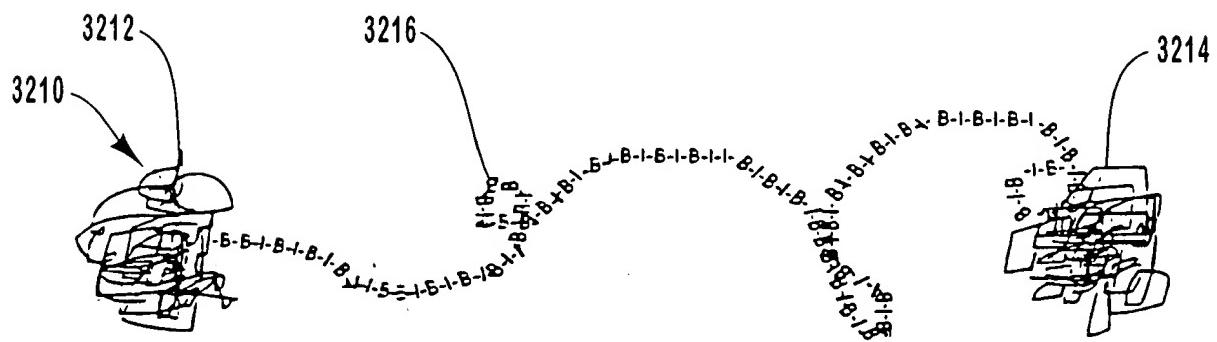


FIG. 37e

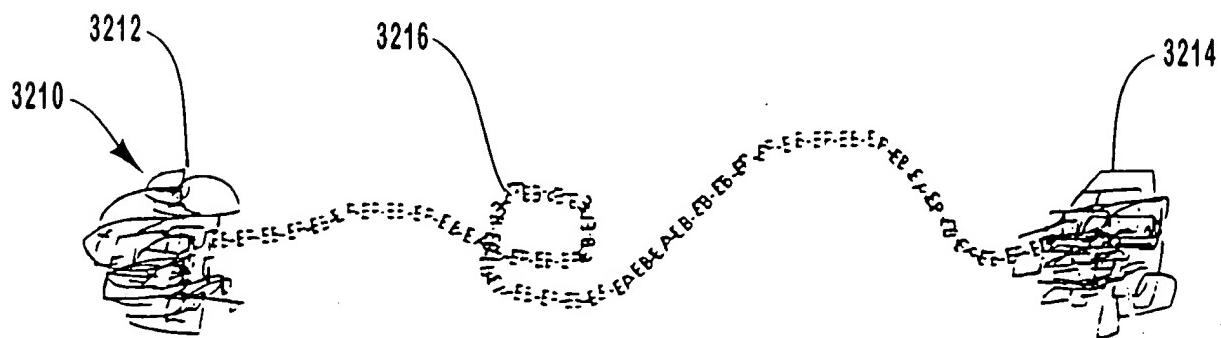


FIG. 37f

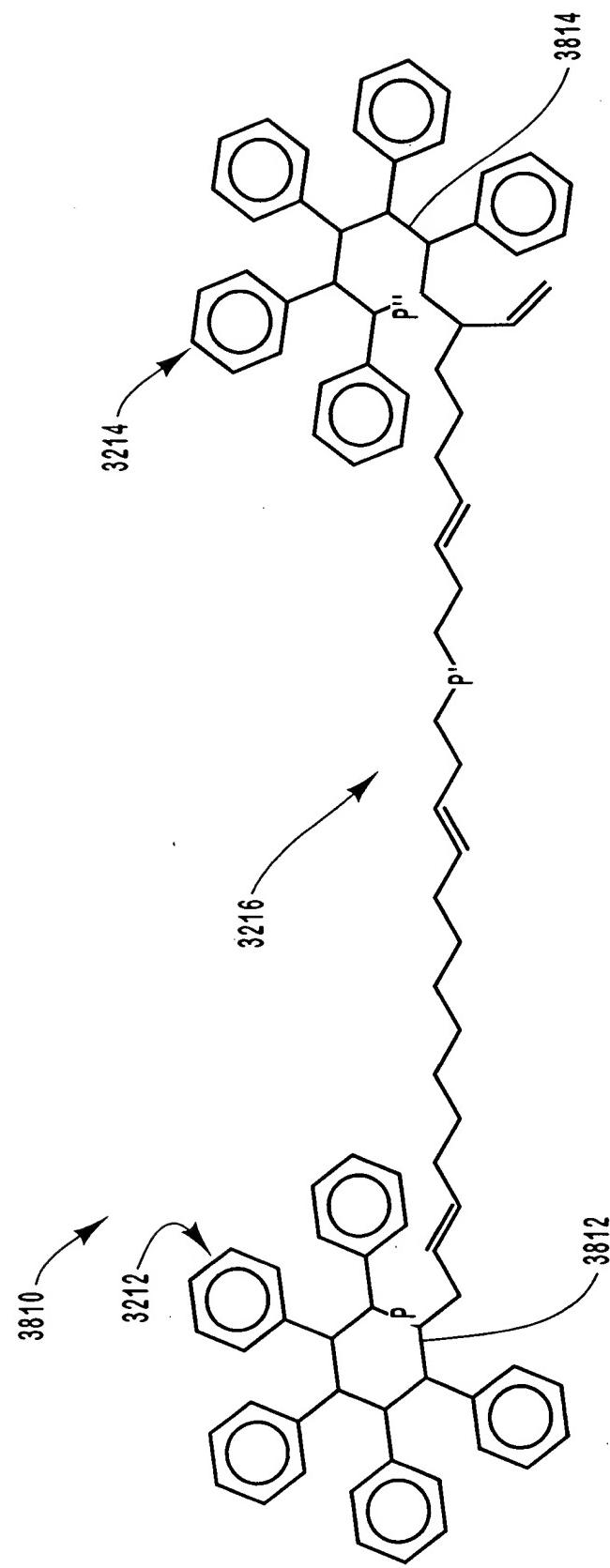


FIG. 38a

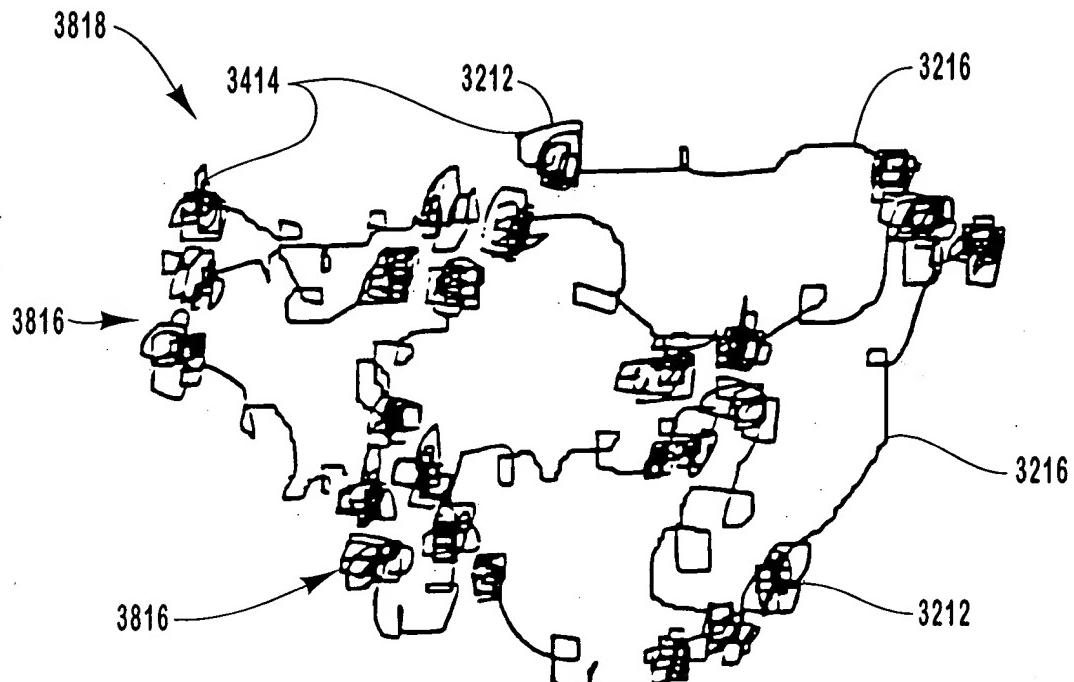


FIG. 38b

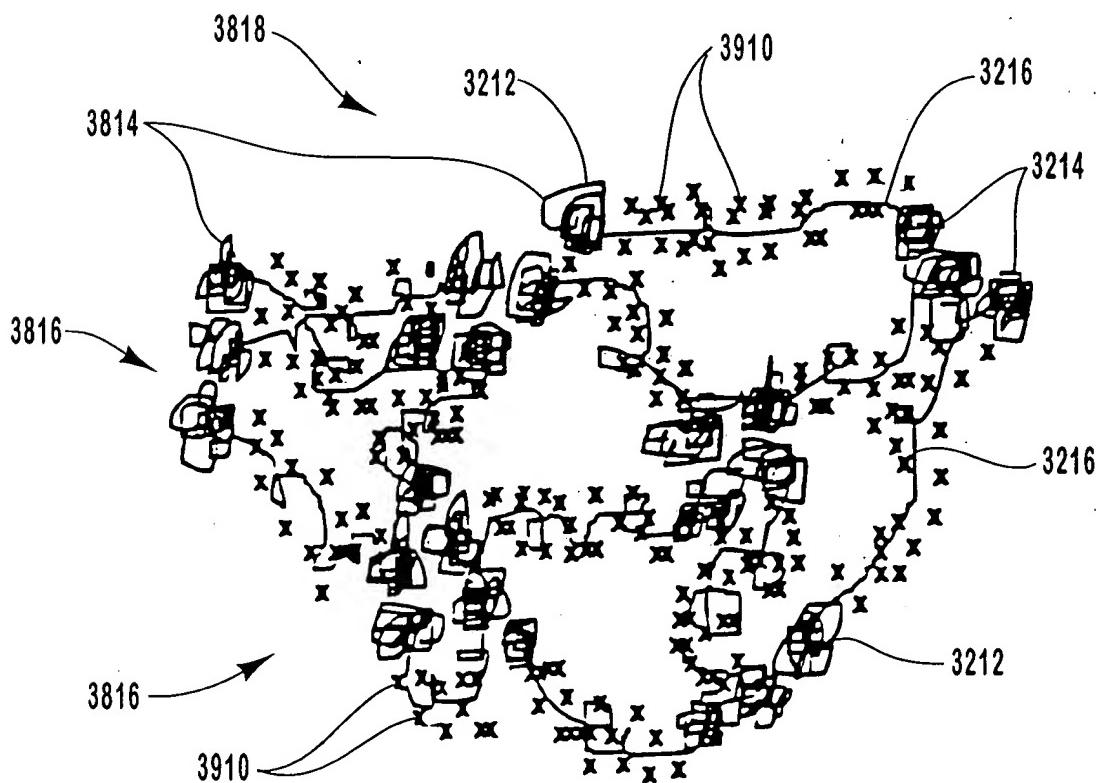


FIG. 39a

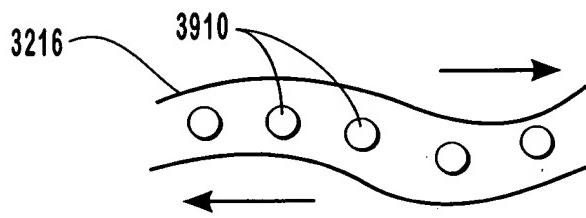


FIG. 39b

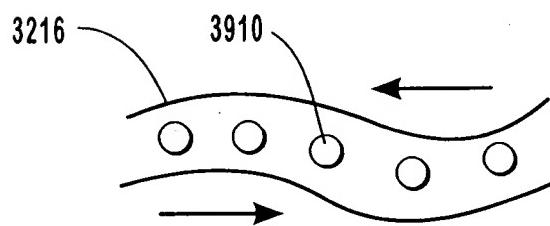


FIG. 39c

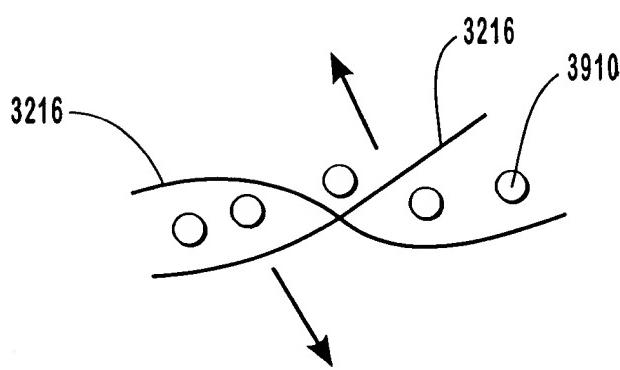


FIG. 39d

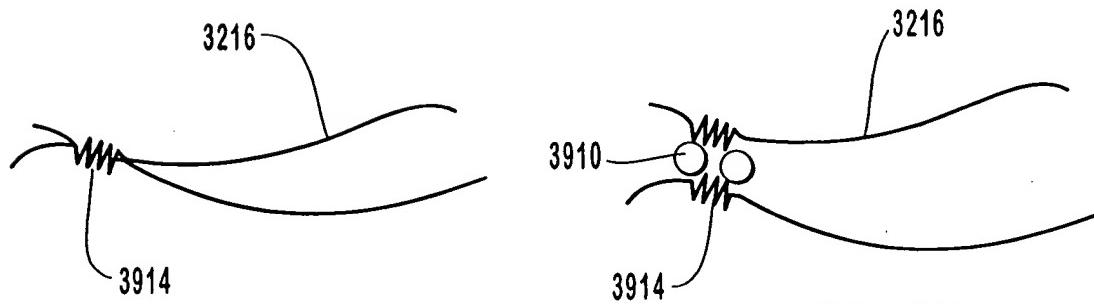


FIG. 39e

FIG. 39f

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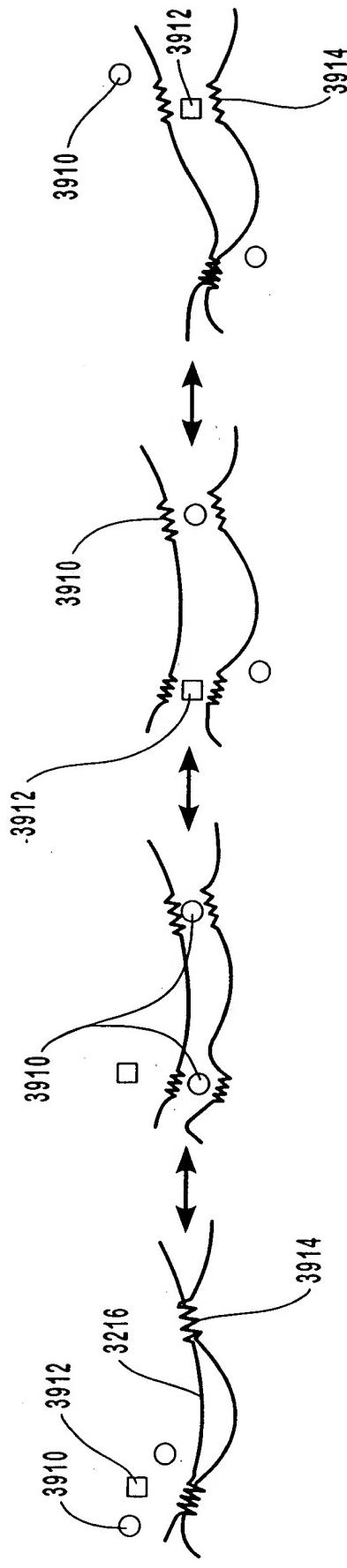


FIG. 39g

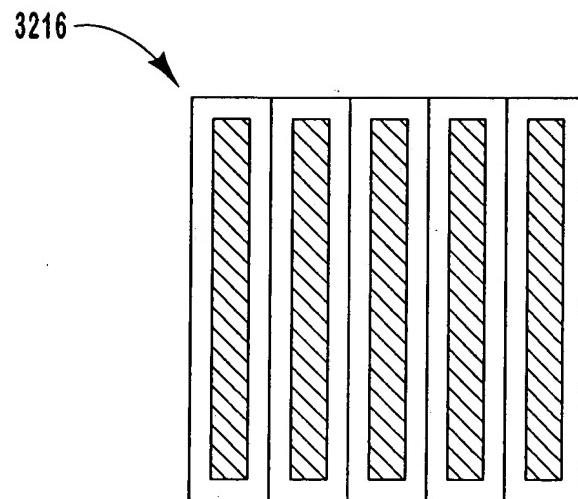


FIG. 39h

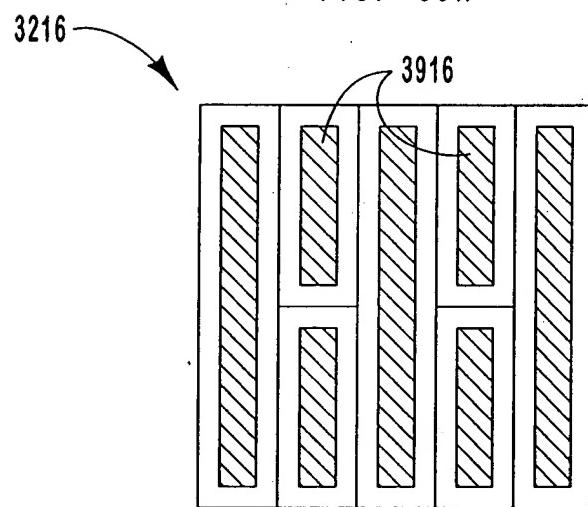
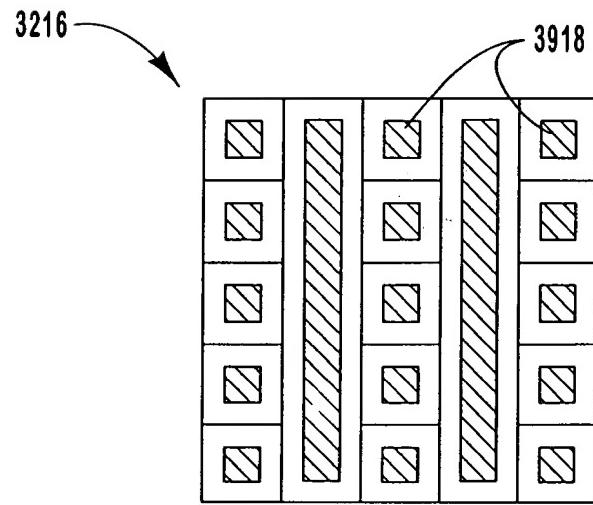


FIG. 39i



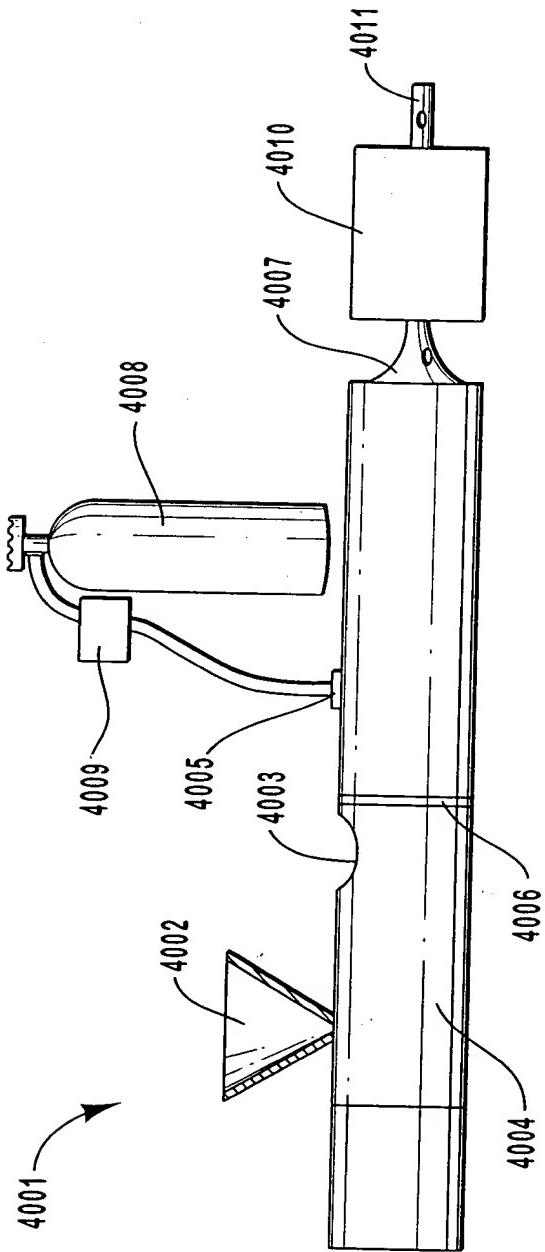


FIG. 40a

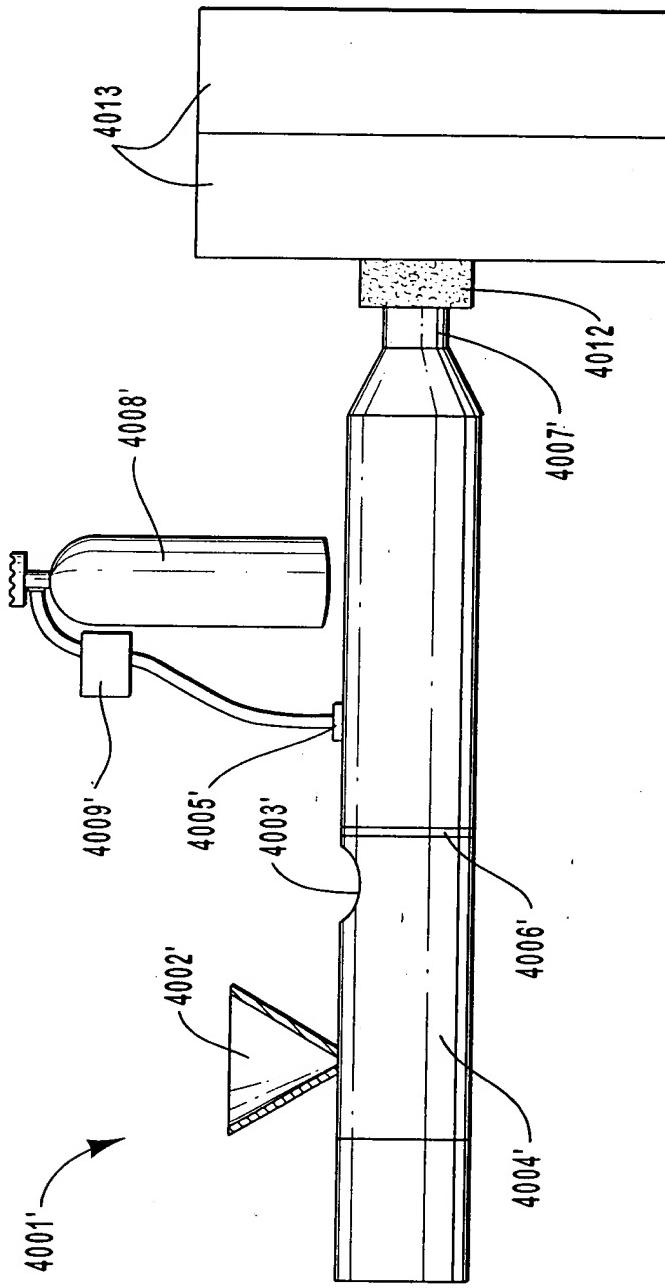


FIG. 40b

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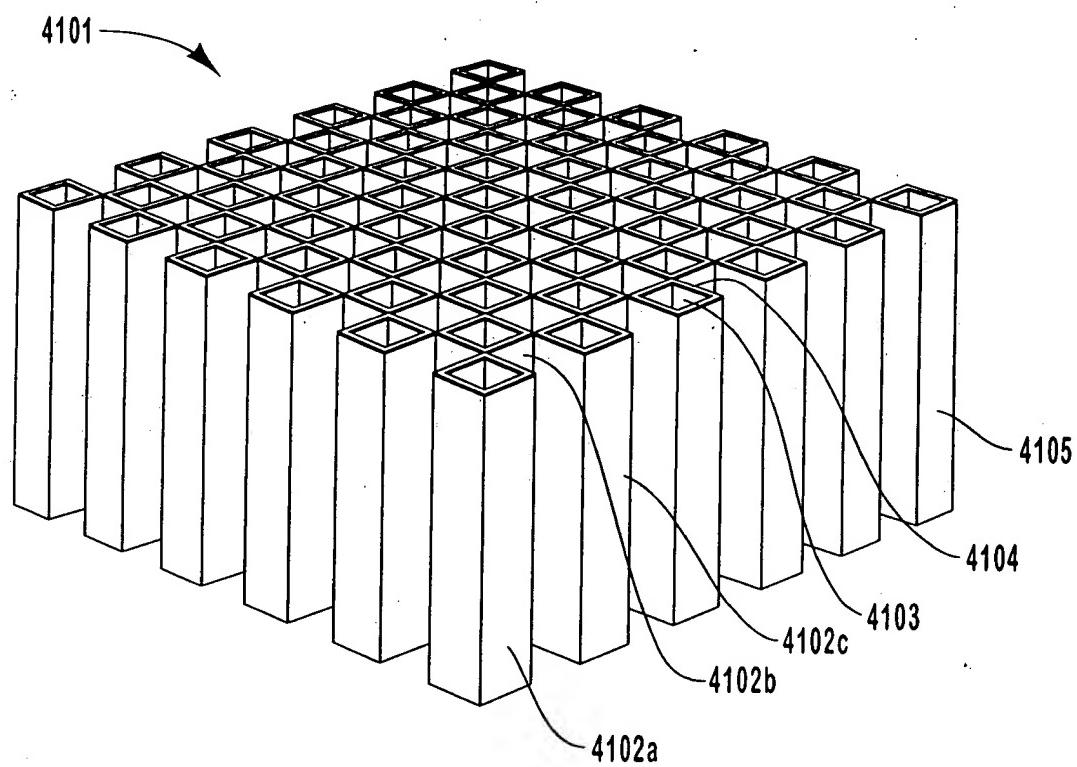


FIG. 41

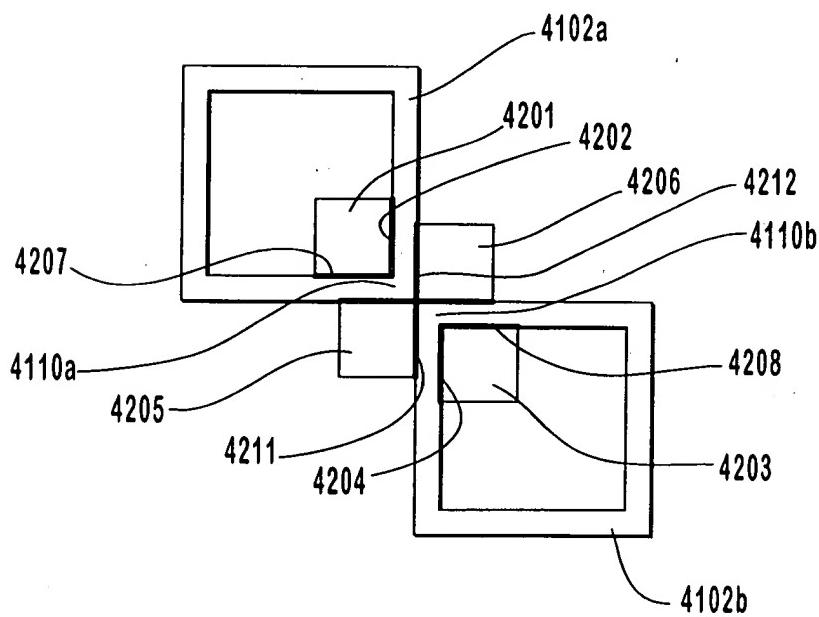


FIG. 42

FIGURE 43

430²

430¹

Step 1: Cut foam bun (along dashed lines) with CNC contour cutter

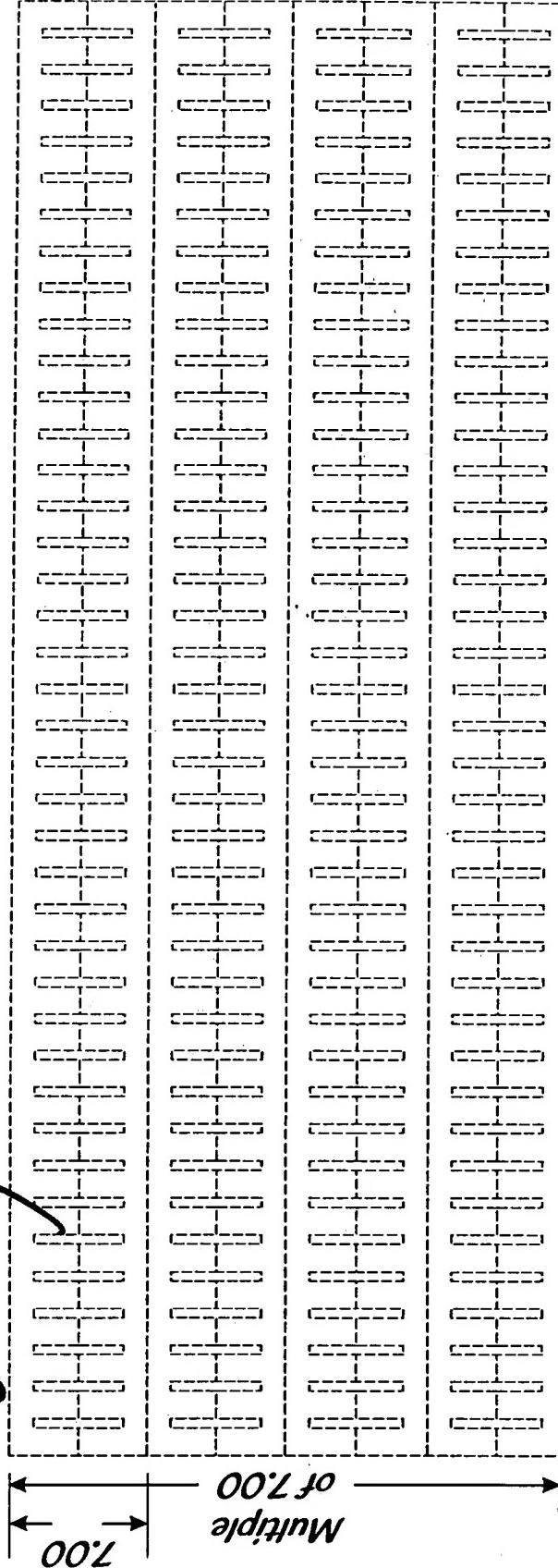


FIGURE ~~44~~ 4401

*Step 2: Without disturbing the now cut bin, rotate it 90 degrees
and make the same type of cuts in the other direction*

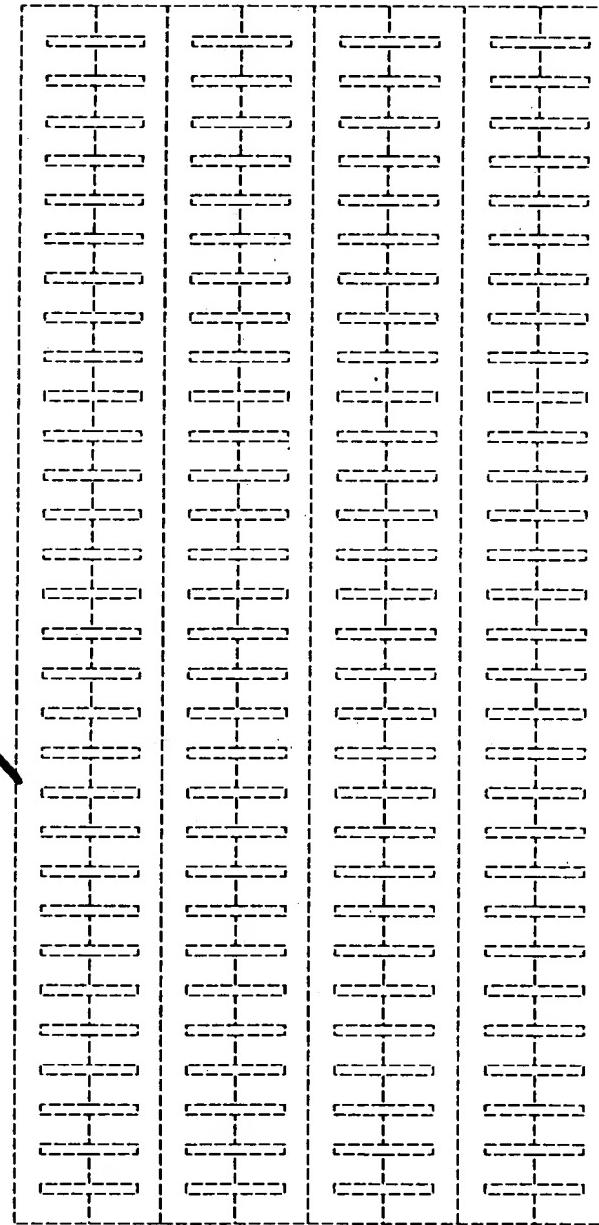


FIGURE # 45

Step 3: Separate the pieces and discard the thin sections

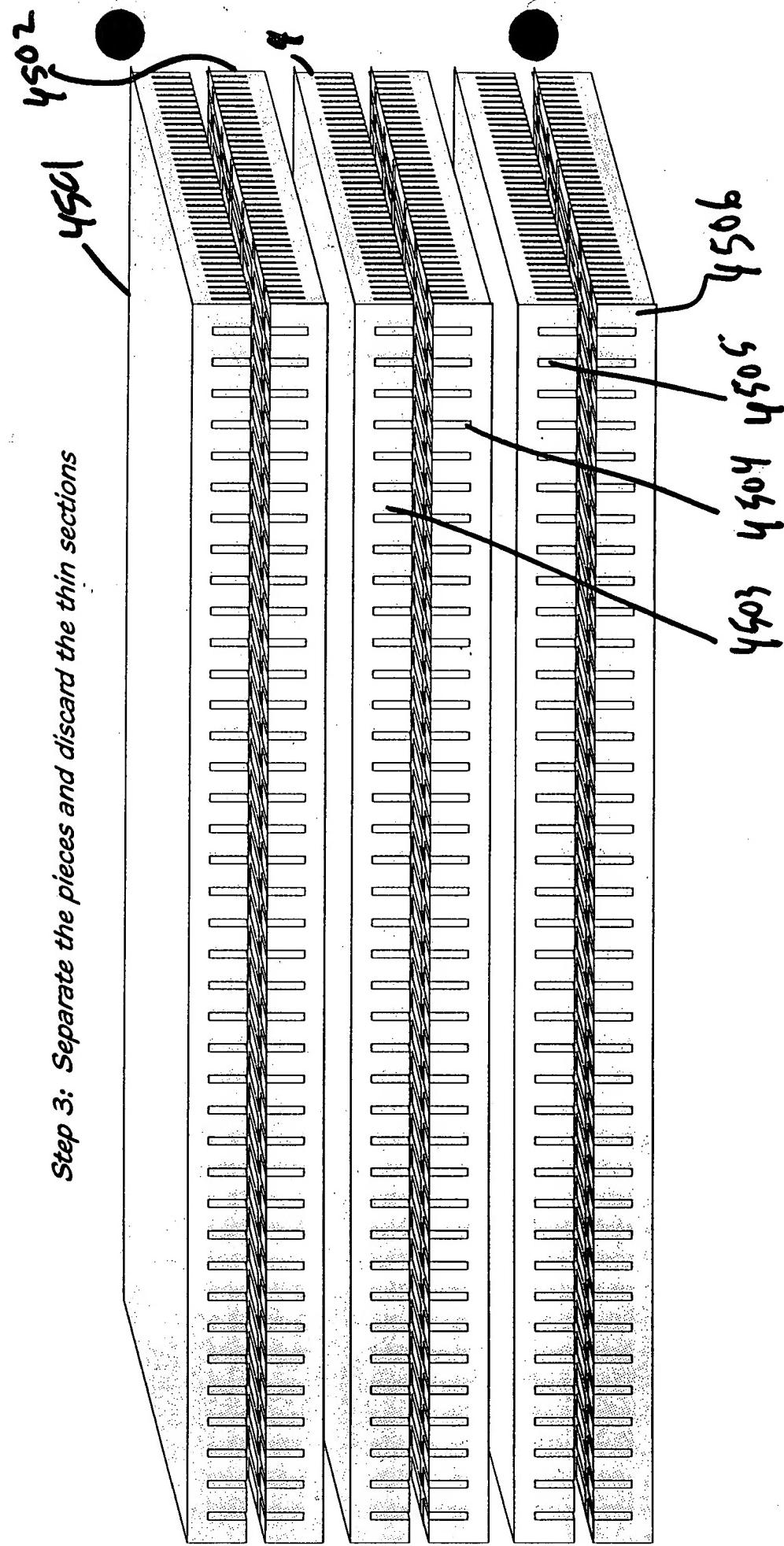
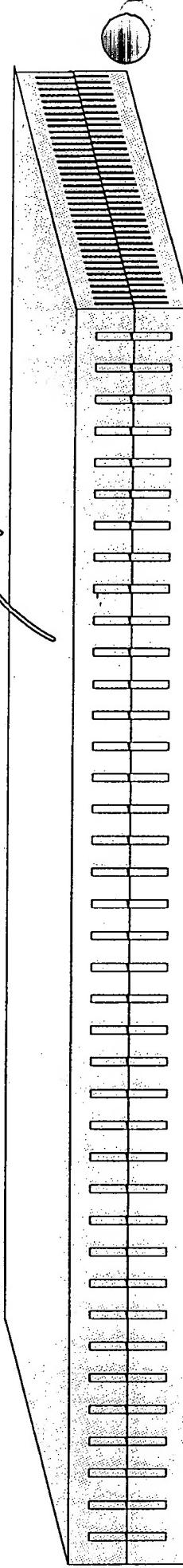


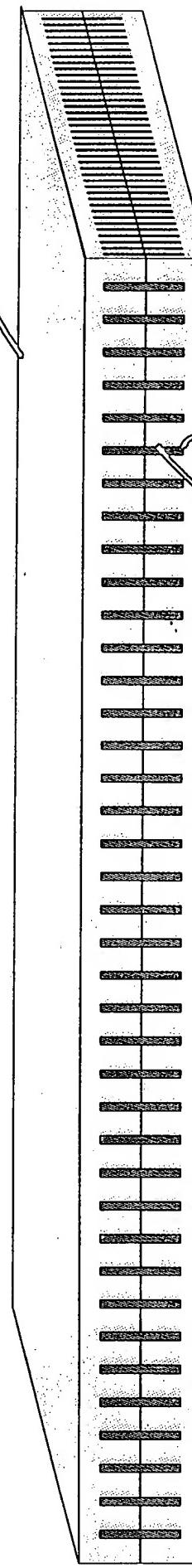
FIGURE 4706

FIGURE 4706

Step 4: Bond with adhesive 4701



Step 5: Insert side support foam pieces (do not bond) all four sides 4703

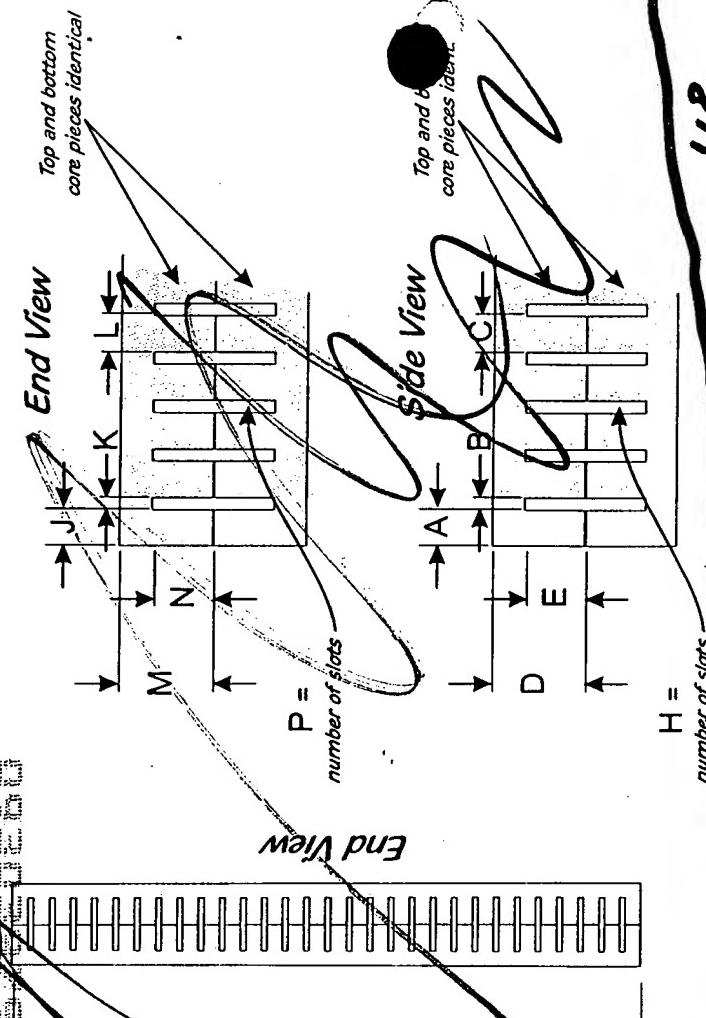


4702

4701

All material: HR50280 high resiliency polyurethane foam

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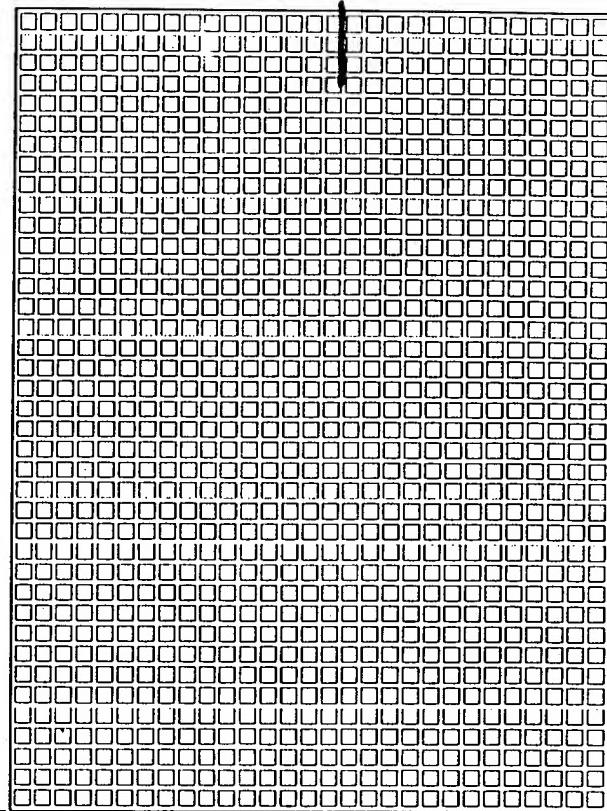


Dimensions:

Dimension (inches)	Twin	Twin XL	Double	Double XL	Queen	King	Cal King
A	1.50	1.50	1.50	1.50	1.50	1.50	1.50
B	0.53	0.53	0.53	0.53	0.50	0.50	0.51
C	1.50	1.50	1.50	1.50	1.50	1.50	1.50
D	3.50	3.50	3.50	3.50	3.50	3.50	3.50
E	2.50	2.50	2.50	2.50	2.50	2.50	2.50
F	74.50	79.50	74.50	79.50	79.50	79.50	84.00
G	38.00	38.00	53.00	53.00	50.00	70.00	72.00
H	36	39	36	39	39	39	41
I	1.50	1.50	1.50	1.50	1.50	1.50	1.50
K	0.53	0.53	0.48	0.48	0.52	0.51	0.51
L	1.50	1.50	1.50	1.50	1.50	1.50	1.50
M	3.50	3.50	3.50	3.50	3.50	3.50	3.50
N	2.50	2.50	2.50	2.50	2.50	2.50	2.50
P	18	18	26	26	29	37	35
Q	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R	5.50	5.50	5.50	5.50	5.50	5.50	5.50
S	0.53	0.53	0.53	0.50	0.50	0.51	0.51
# of side support pieces	100	106	116	122	128	144	144

FIGURE 485

FIGURE 485



Top view of Bottom Core Piece

485

FIGURE 5101

Step 1: Cut foam bun (along dashed lines) with X-Y programmable wire profile saw

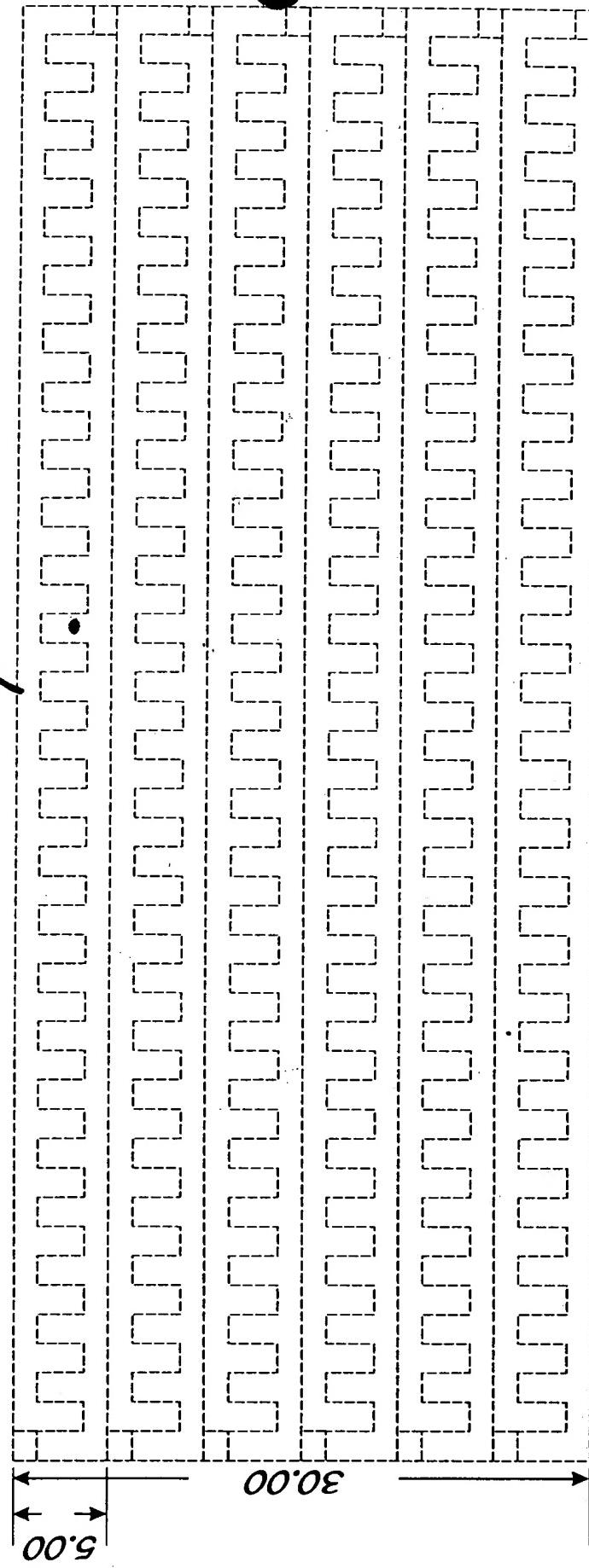


Figure 52

Figure 52

Step 2: Separate (discard the small pieces from each end)

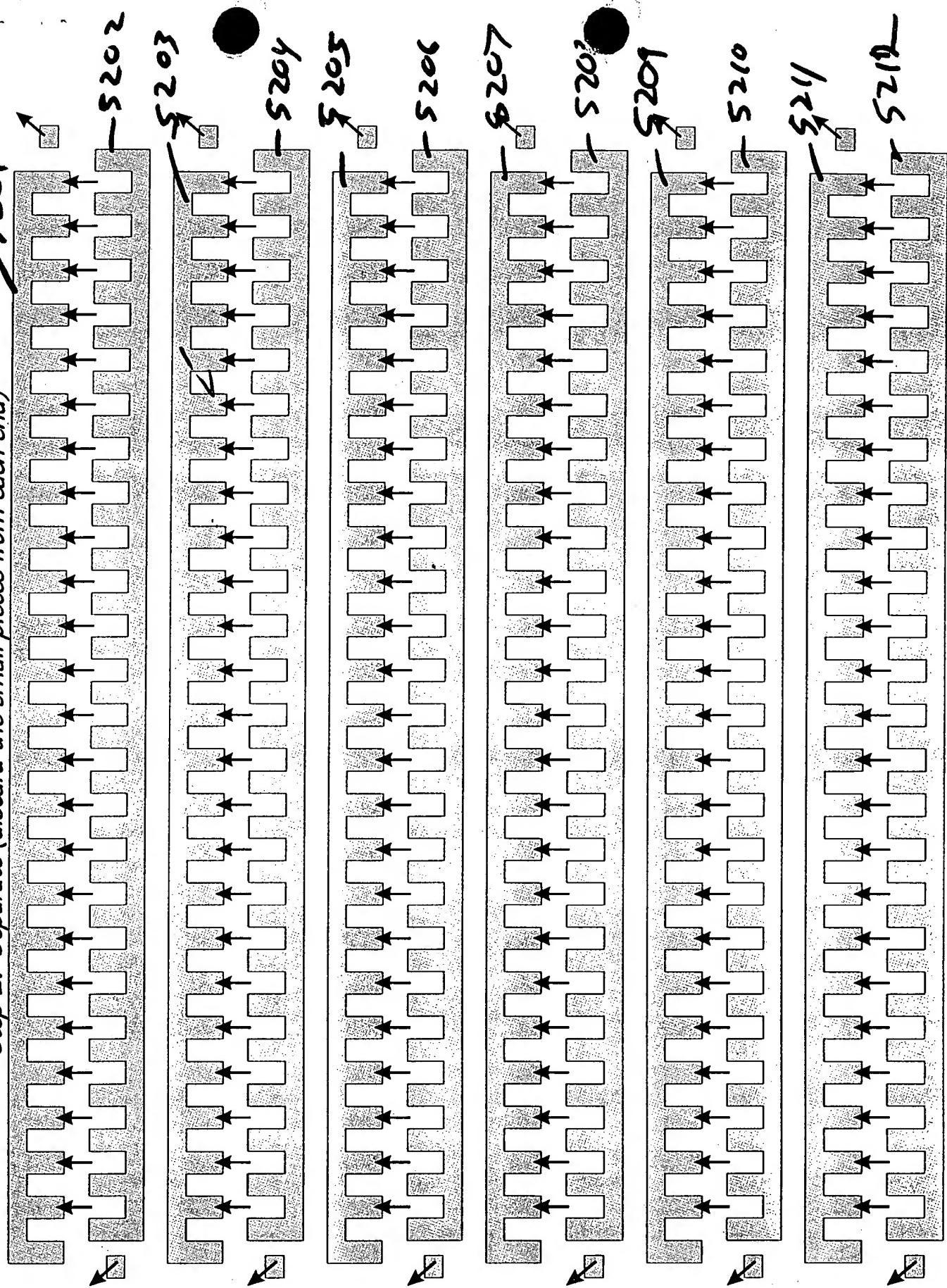
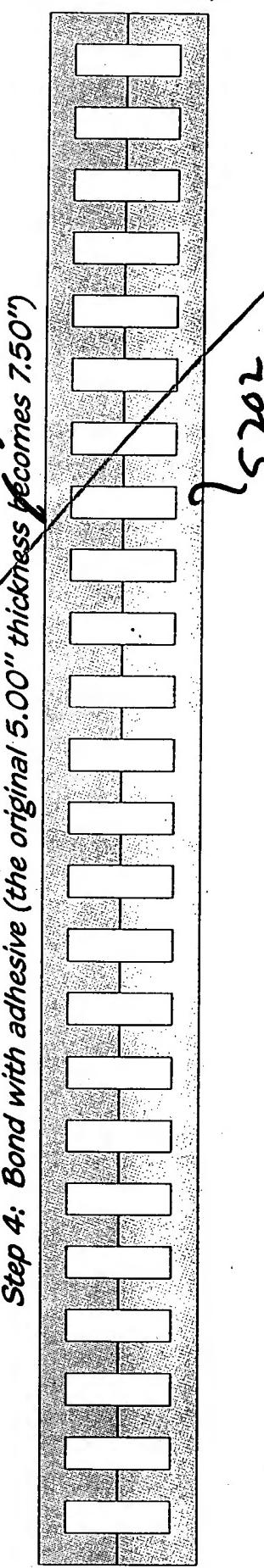
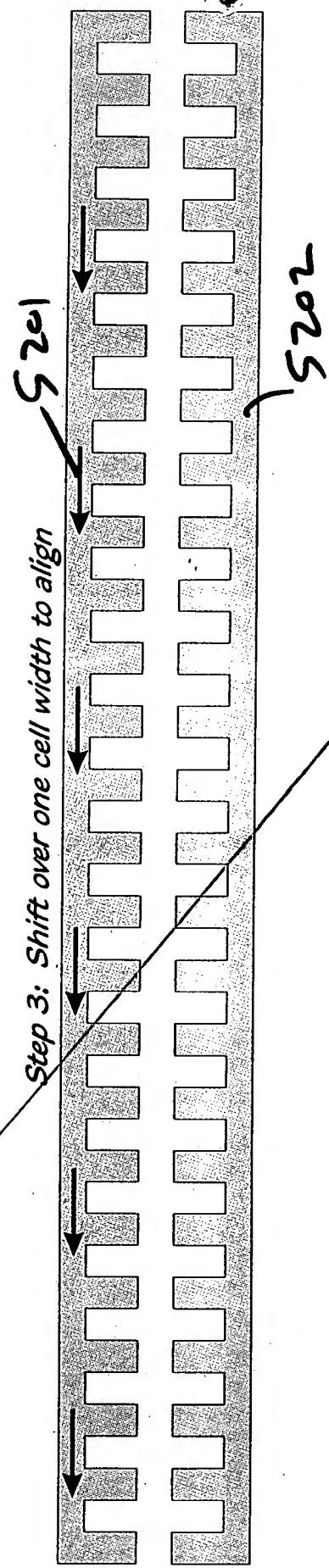


Figure 52



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disclosure, or reproduction prohibited.

~~Figure 52a~~
Figure 52a

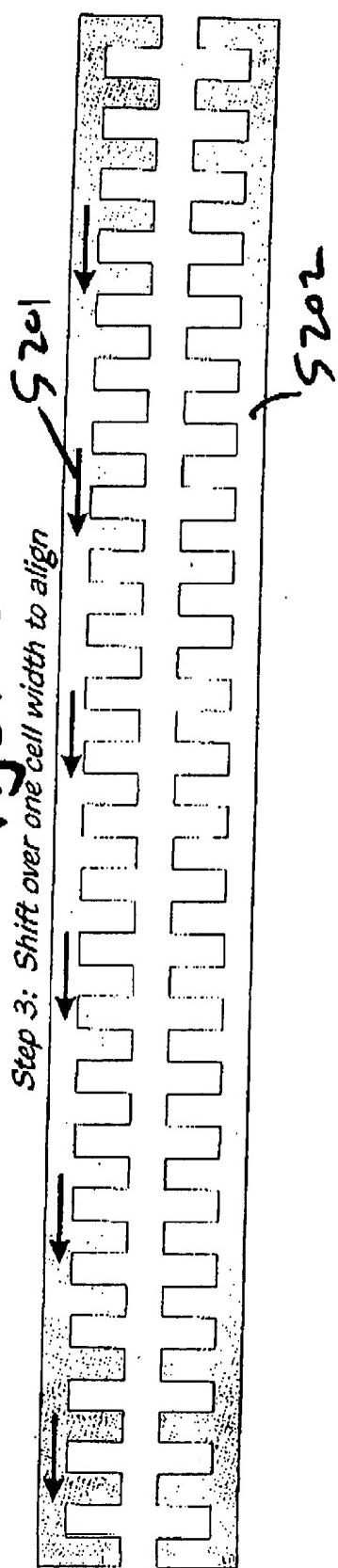


Fig. 53

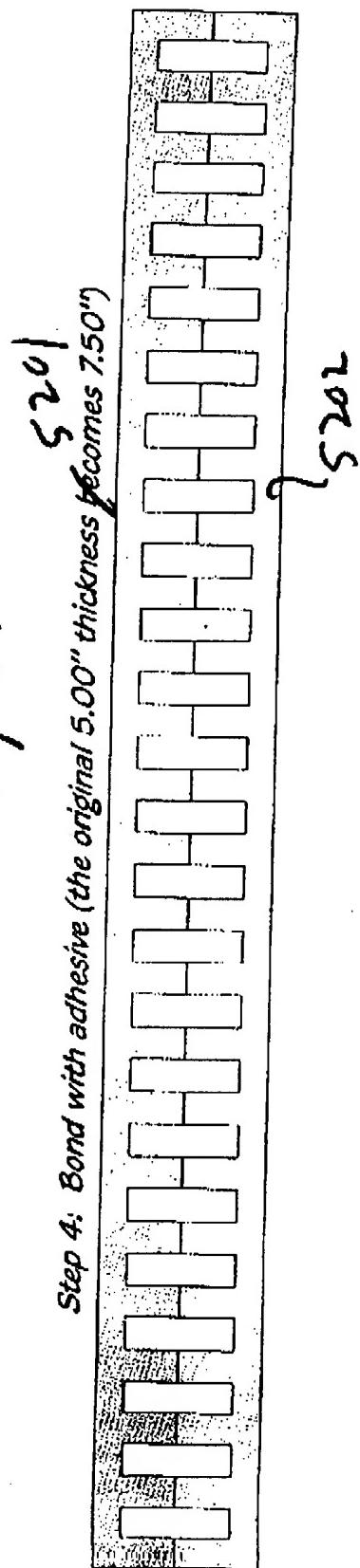


Figure ~~54~~ 54

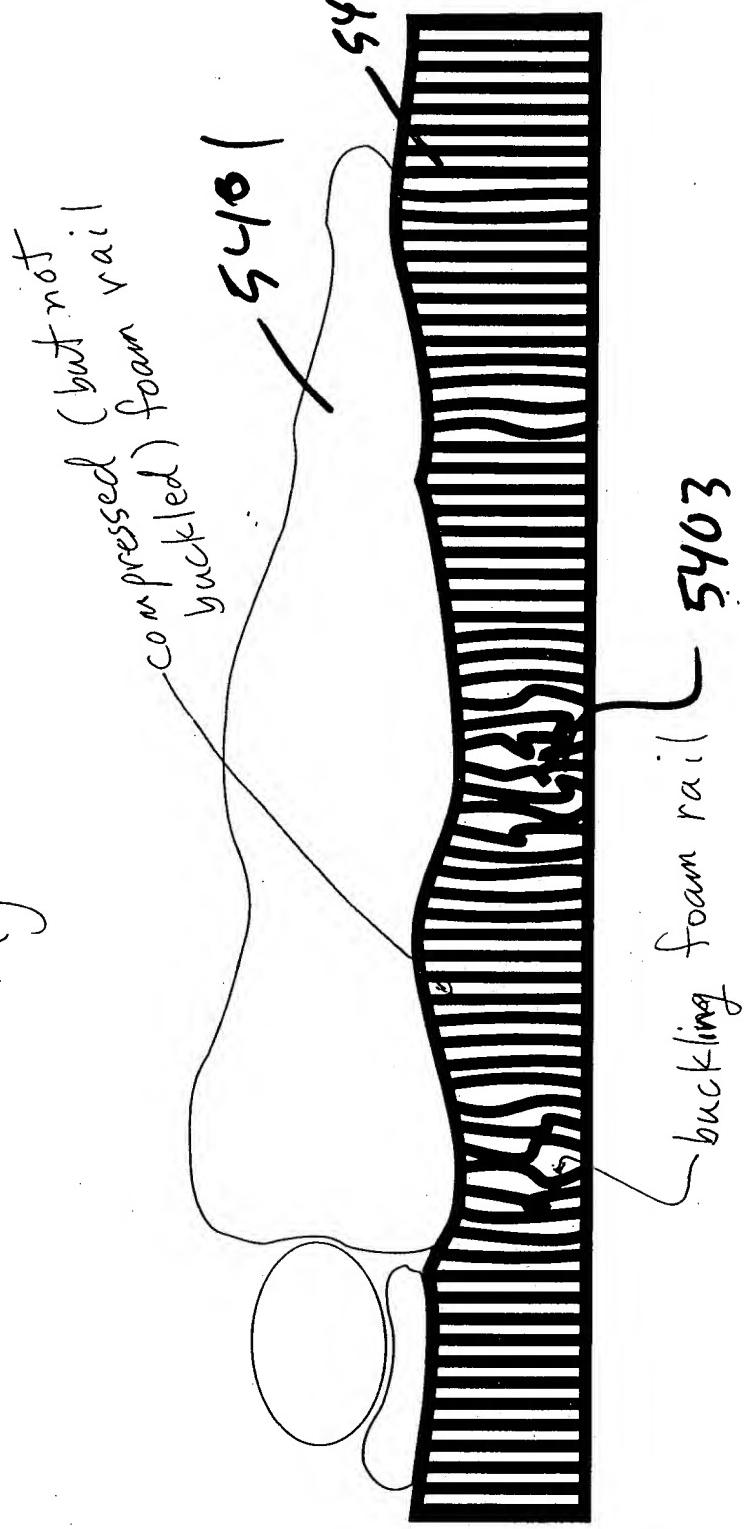


Figure 4-55

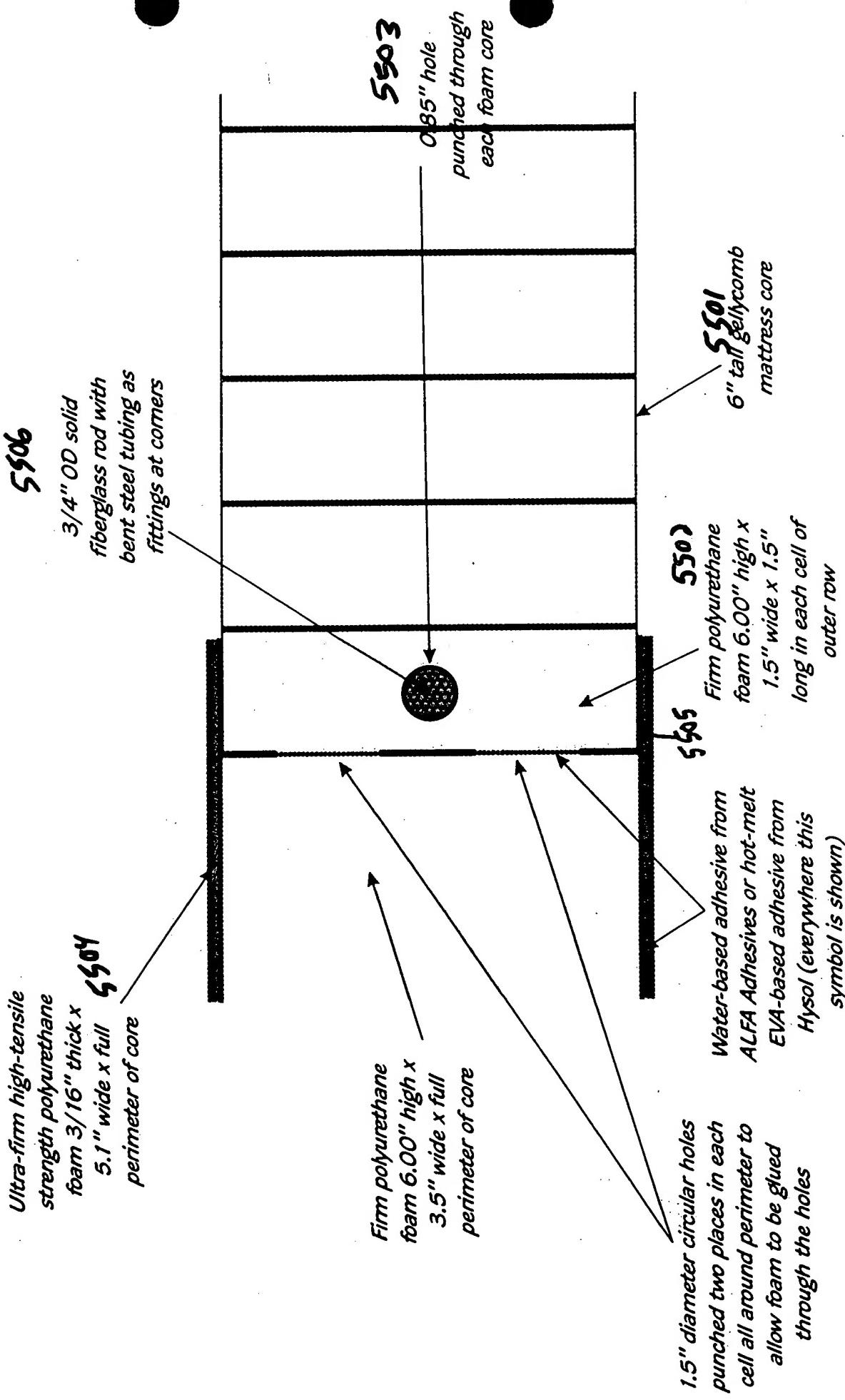


Figure 56 2020

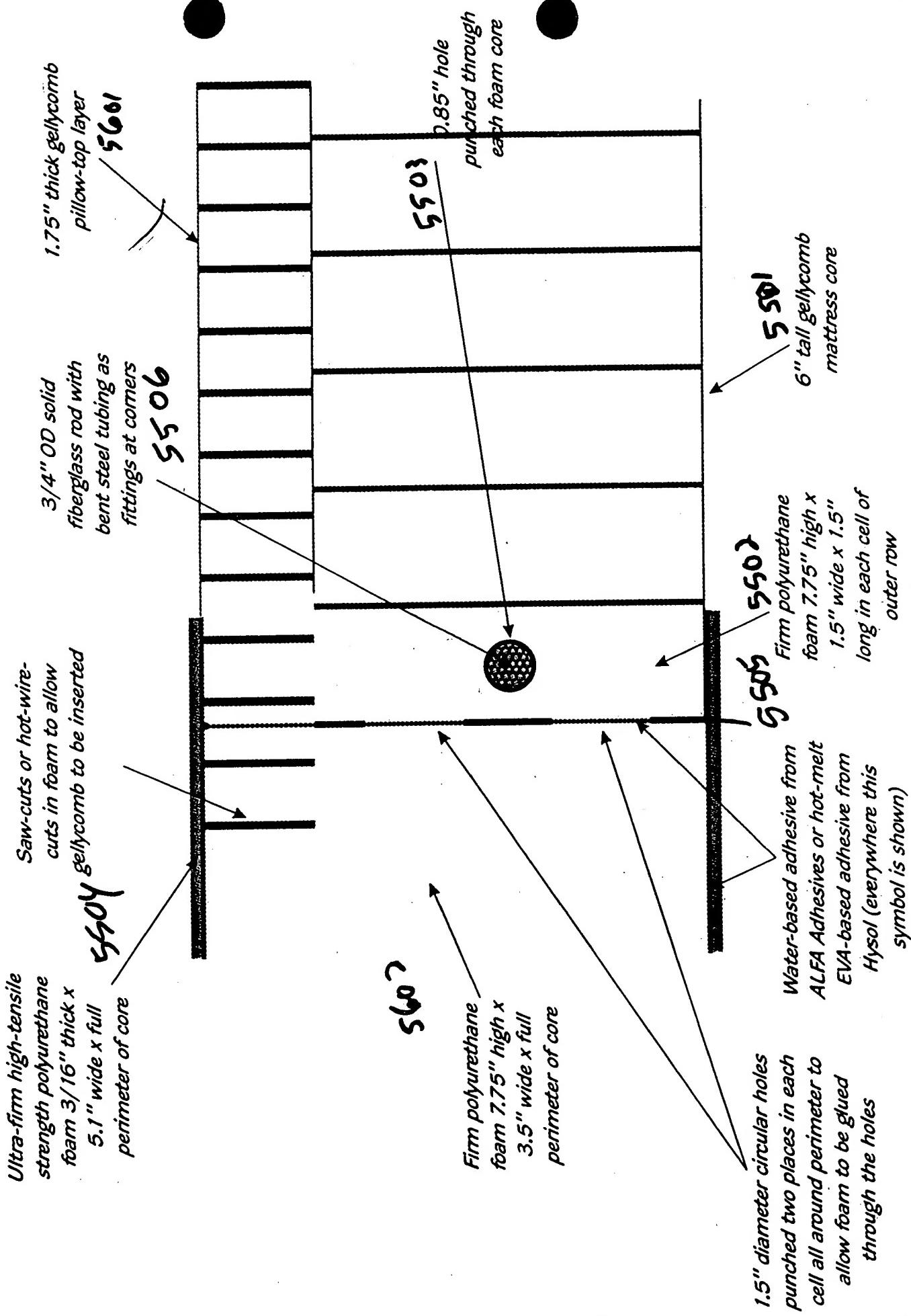


Figure 8 & 7

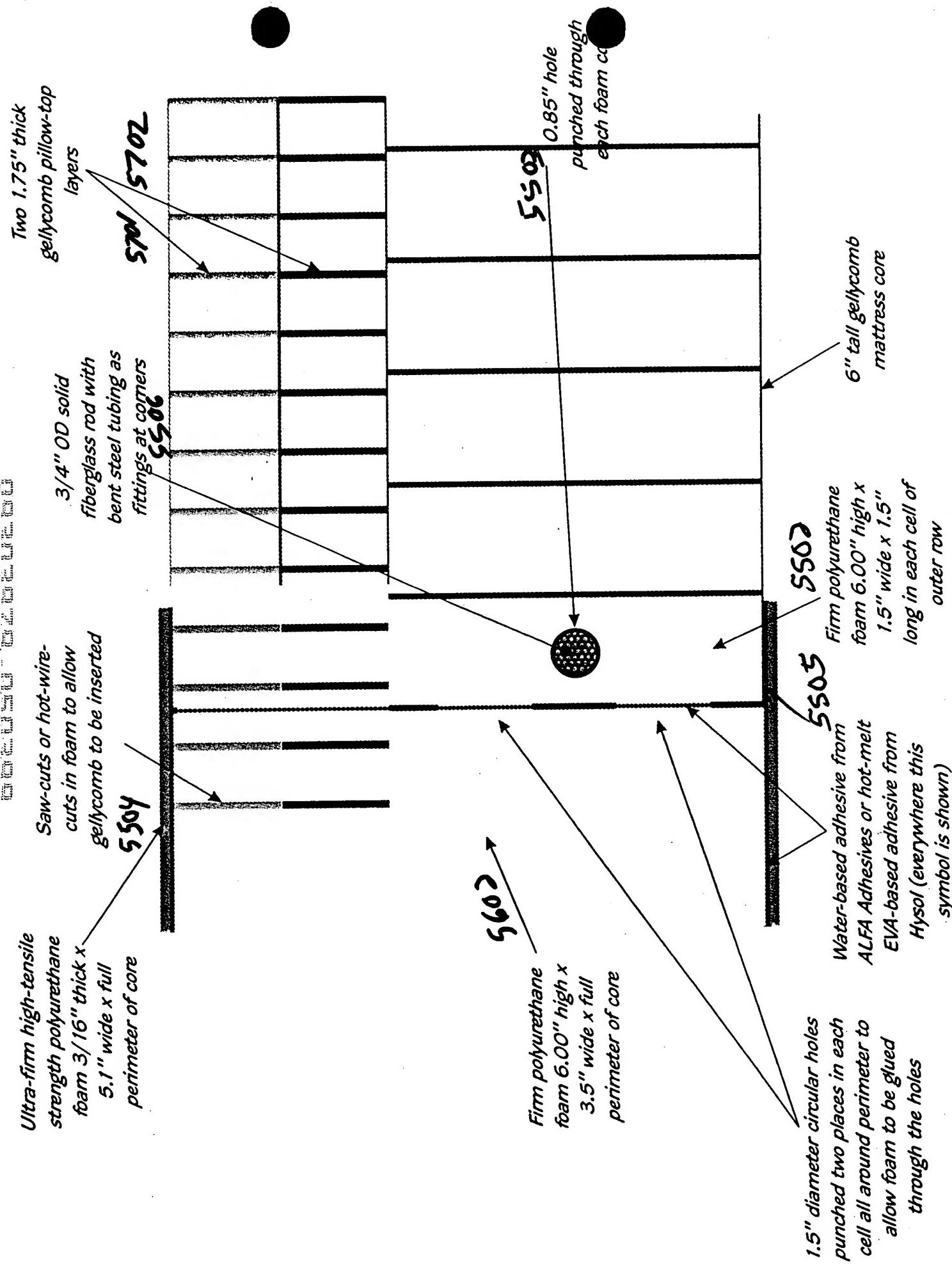


Figure 4

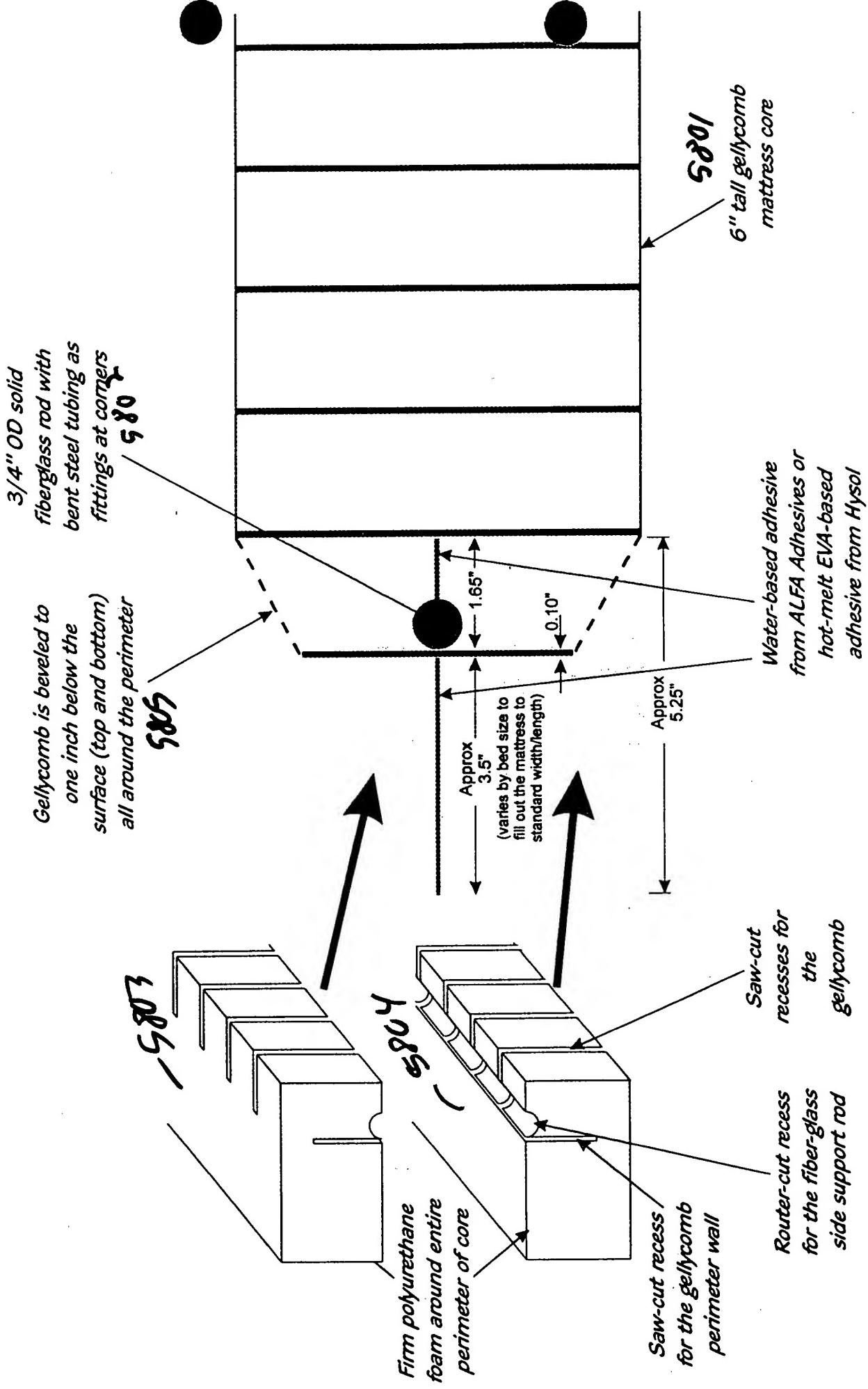


Figure 59

Ultra-fine, high-tensile strength polyurethane foam 3/16" thick full perimeter of core (or felt mat if it glues well: or urethane film)

Water-based adhesive from ALFA
Adhesives or hot-melt EVA-based
adhesive from Hysol

S901
1.75" thick gellycomb
Comfort Layer

Saw-cut recesses for the
gellycomb cell side walls

S902
3/4" OD solid
fiberglass rod with
bent steel tubing as
fittings at corners

S903

Circular blade
Saw Cut

S904

Firm polyurethane
foam around entire
perimeter of core

Approx 3.5"
(varies by bed size to
fill out the mattress to
standard width/length)

1.65"

0.10"

Saw-cut recess
for the gellycomb
perimeter wall

Router-cut recess
for the fiber-glass
side support rod

S905
6" tall gellycomb
mattress core

Gellycomb is beveled to
one inch below the
surface (top and bottom)
all around the perimeter

FIG. 60a

Side View
with Foam
Inserted

6001

Fig. 60b

Side View

Construction: Thin-gauge sheet
metal, riveted

Figure 60

6000 →

~~Exhibit 7~~

Side View of differ-
ent top fixture
if gellycomb is
placed atop the
Intelli-Gel

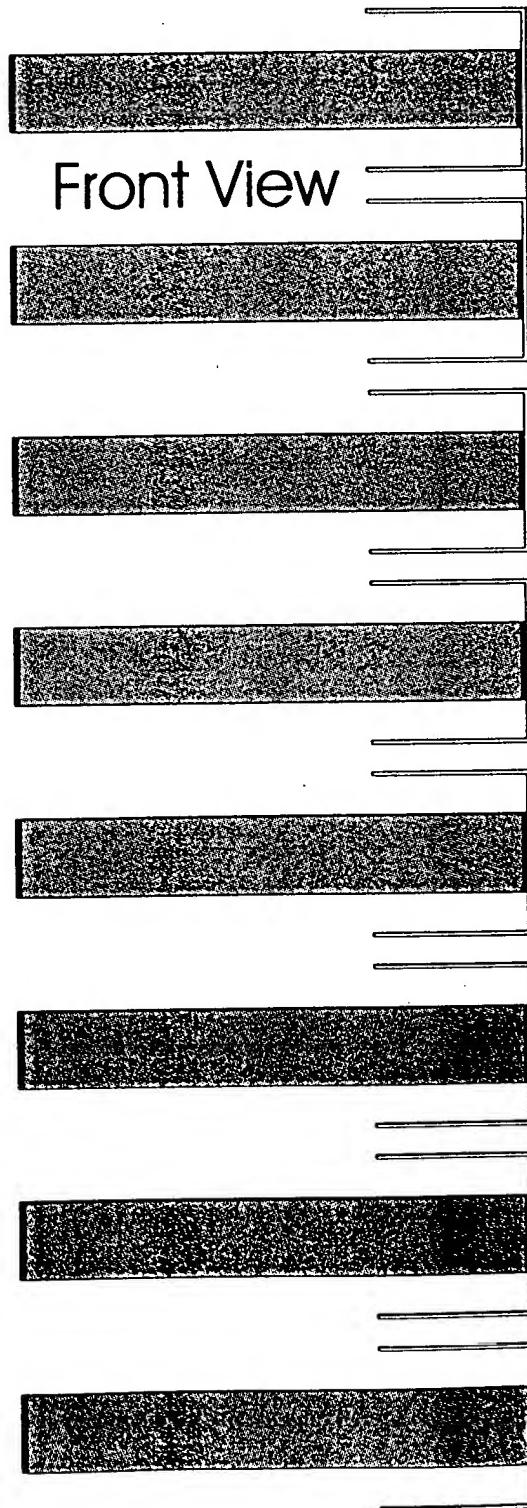
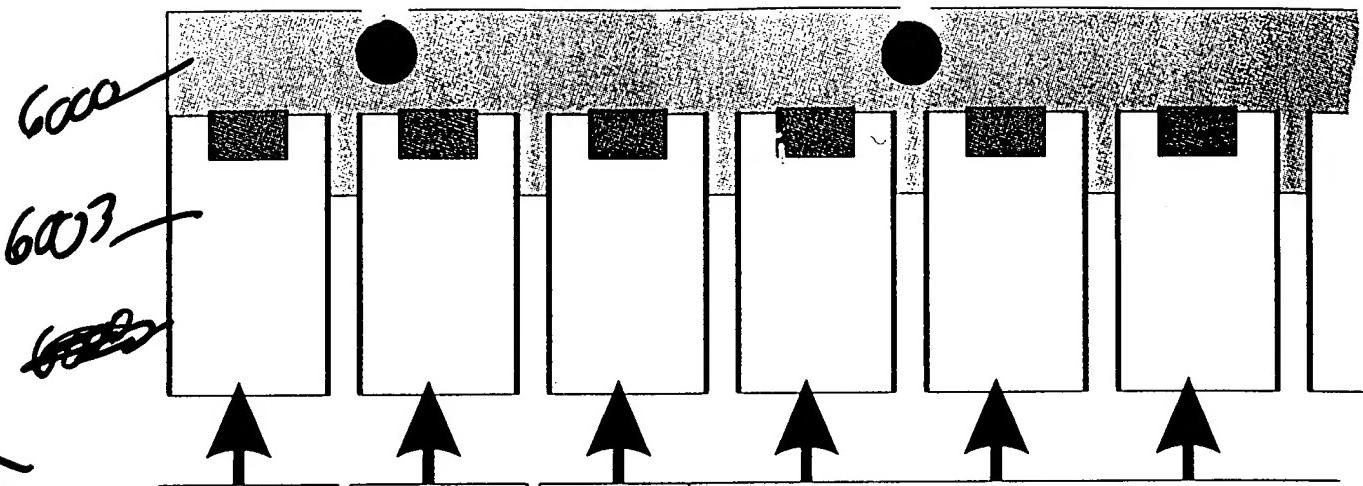


Figure # 61



Step 1: Insert Foam into fixture, squeezing the slit foam that is to be inserted into the gellycomb cells into the u-shaped channels

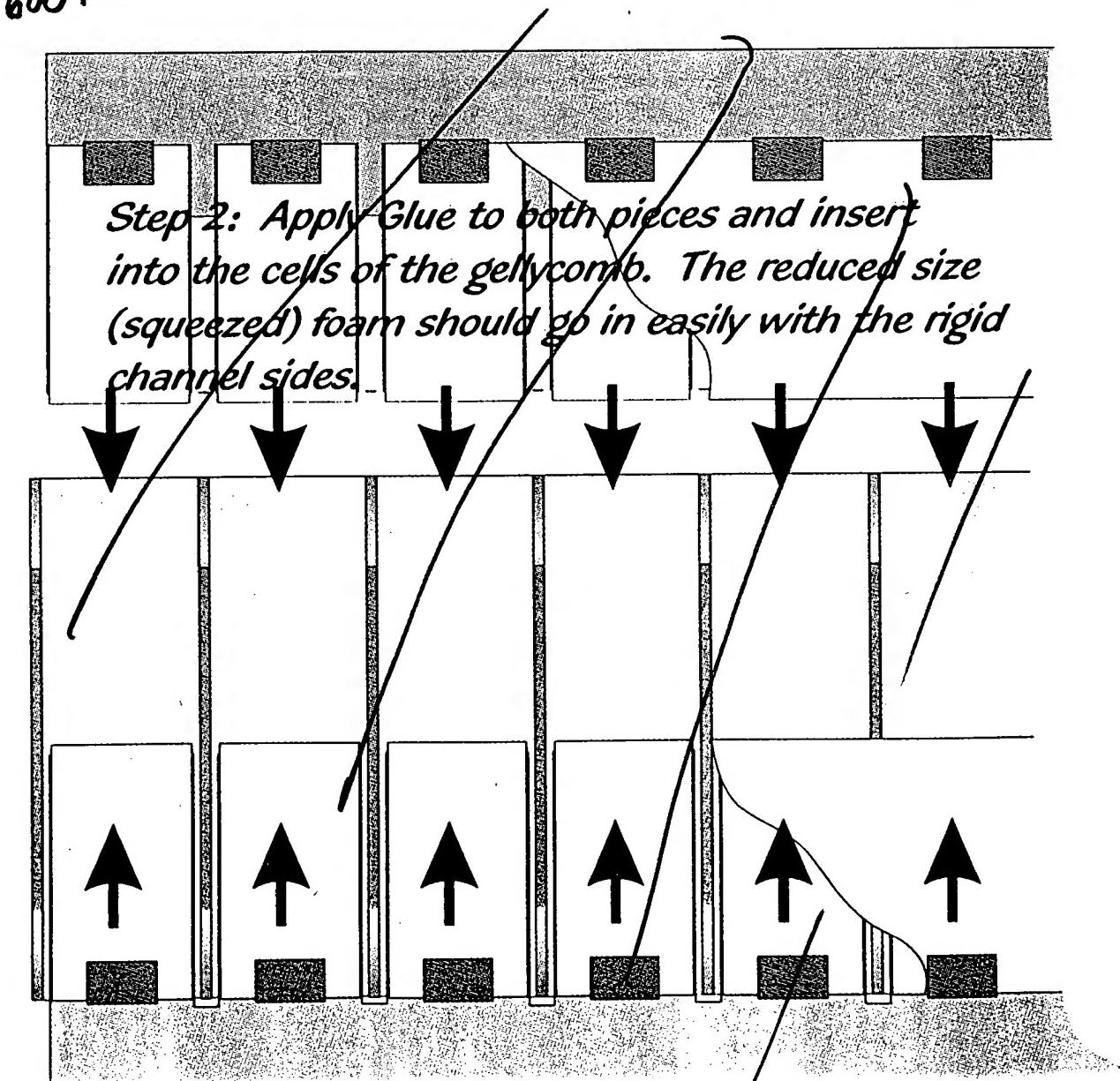


Figure 10-62

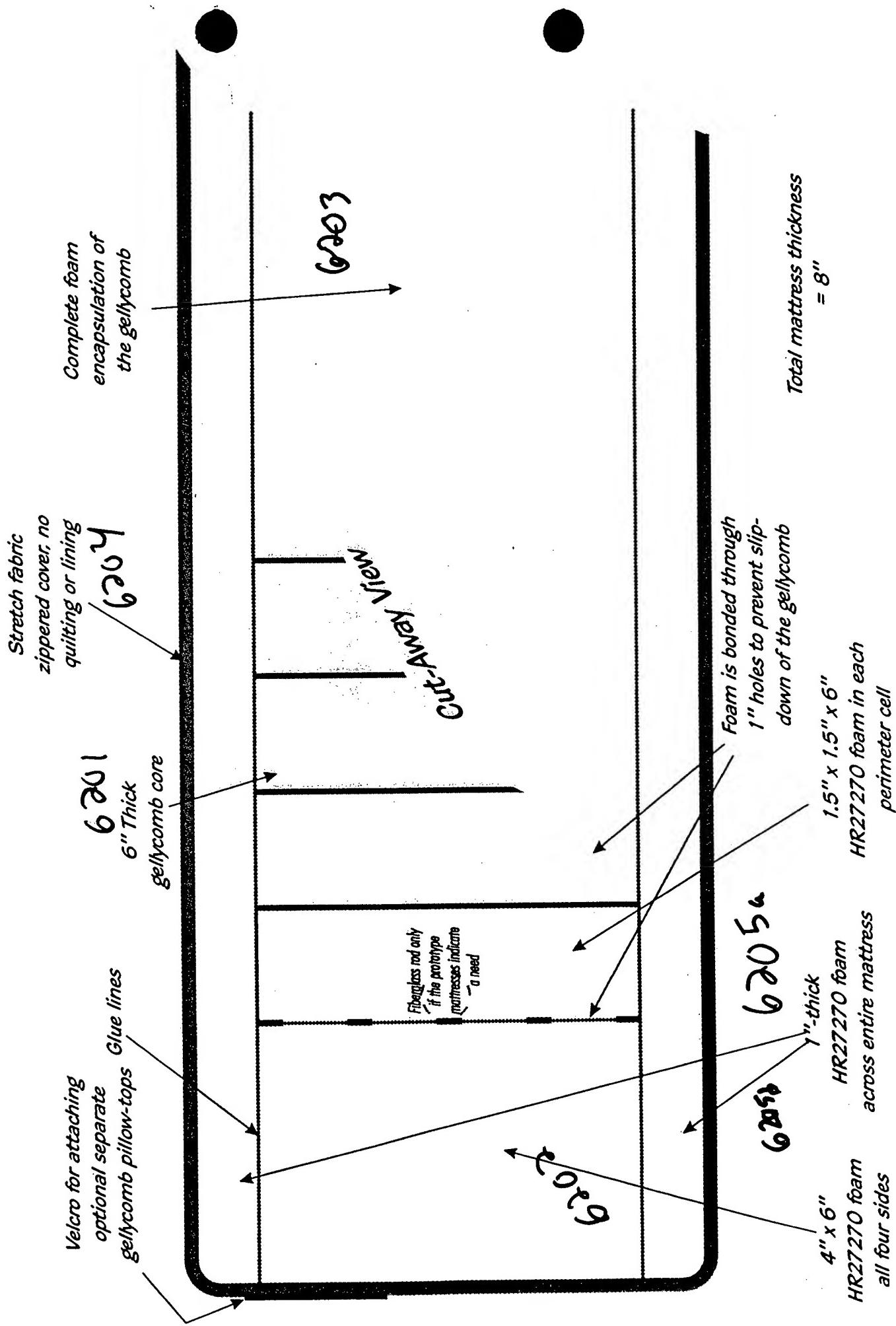


Figure # 63

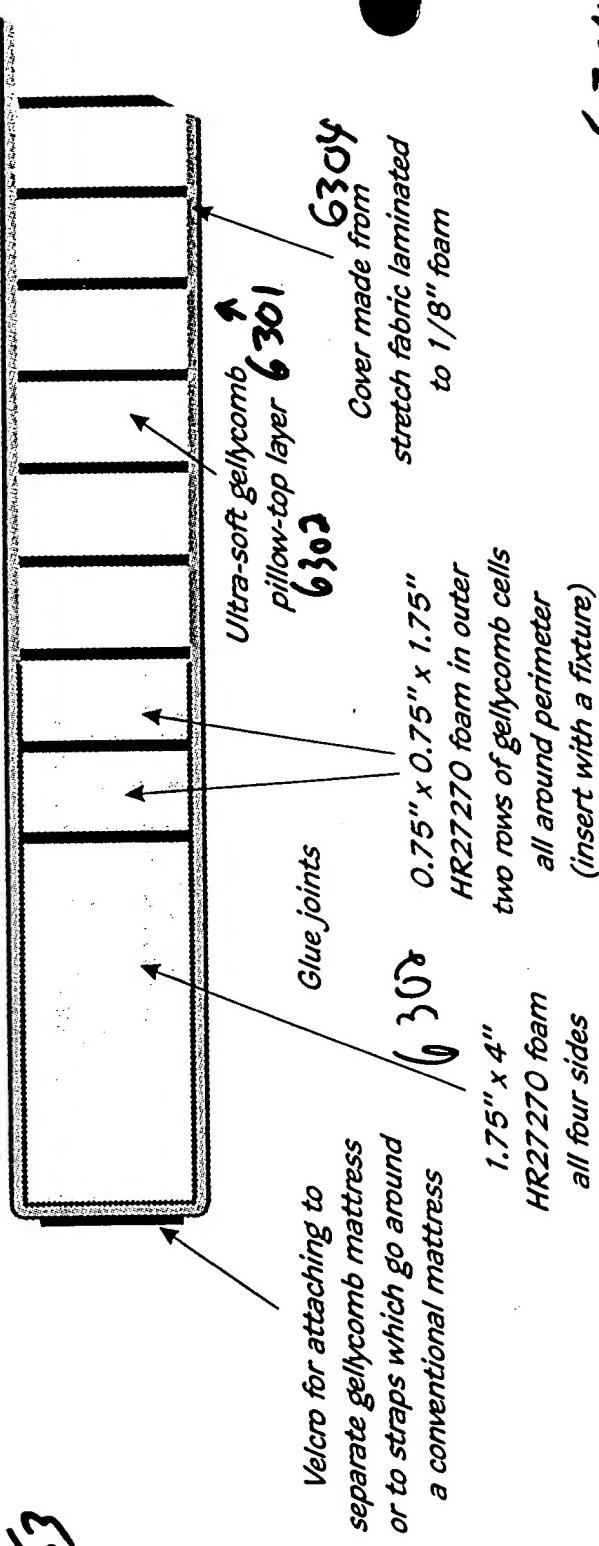


Figure # 64

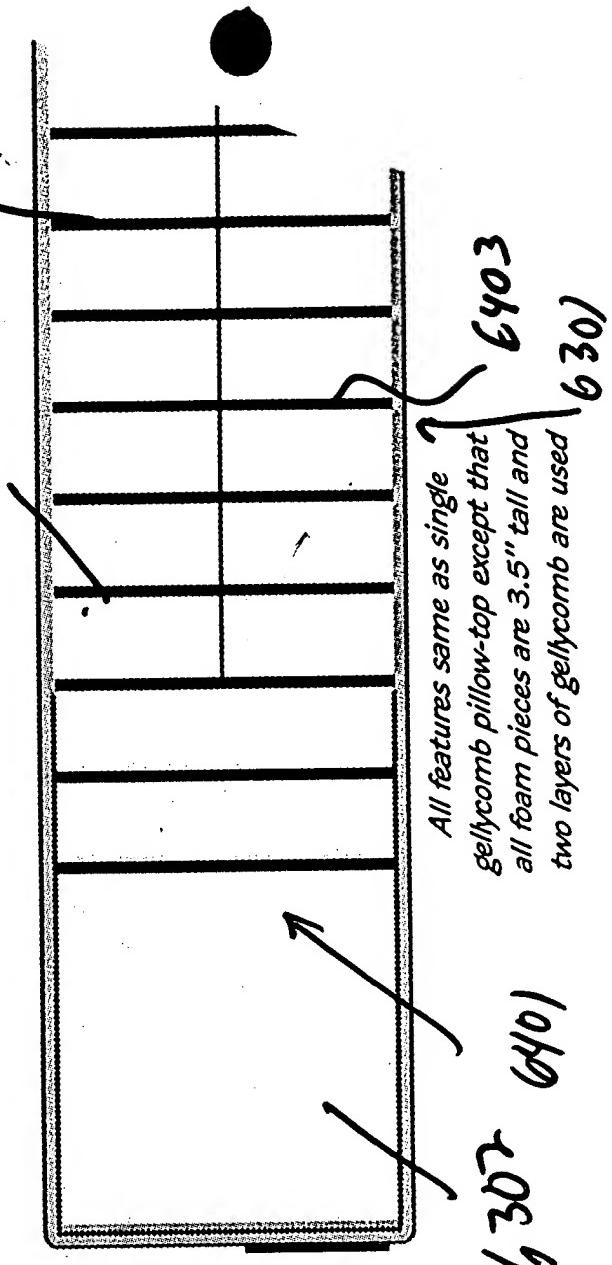


Figure 65

6501 6501 6501

Figure 66

515



6501

6501

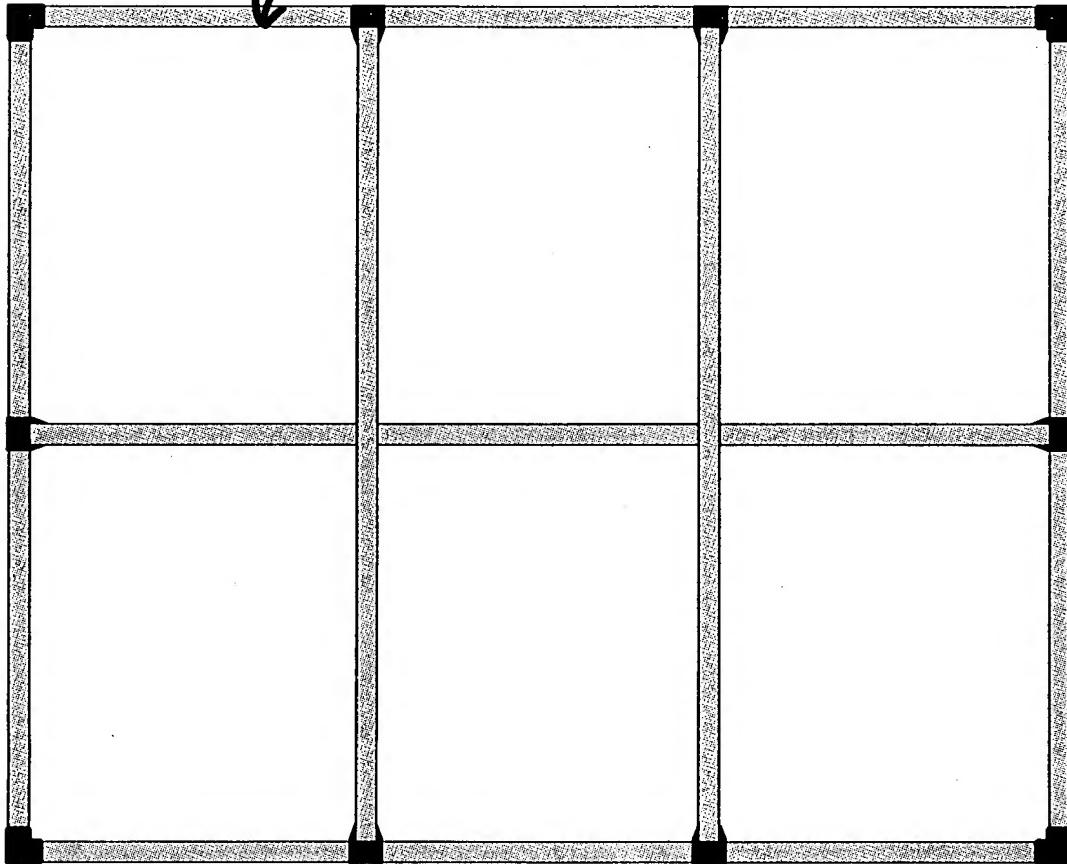


Figure # 67.

FIGURE 67 - FIGURE 67

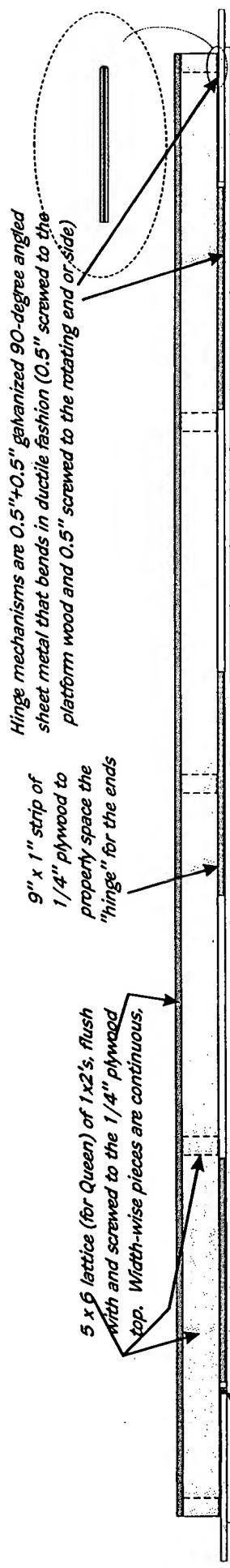


Fig. 67 b

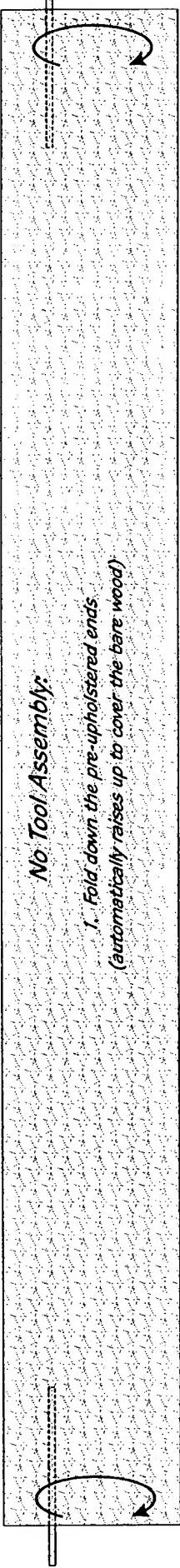


Fig. 67 c

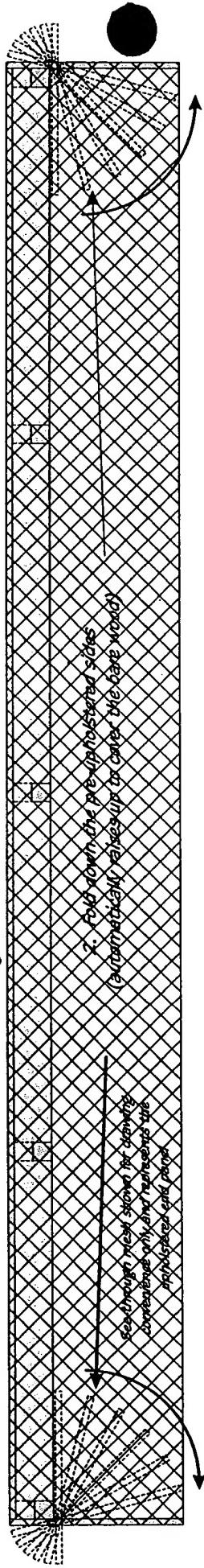


Fig. 67 d

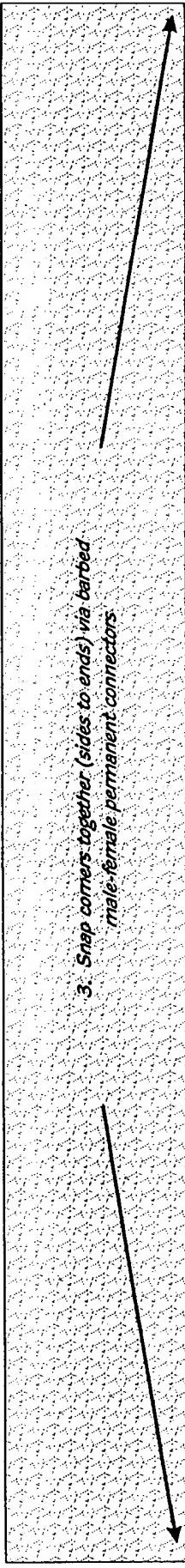


Figure 4
Score 1000 = Fig. 67e

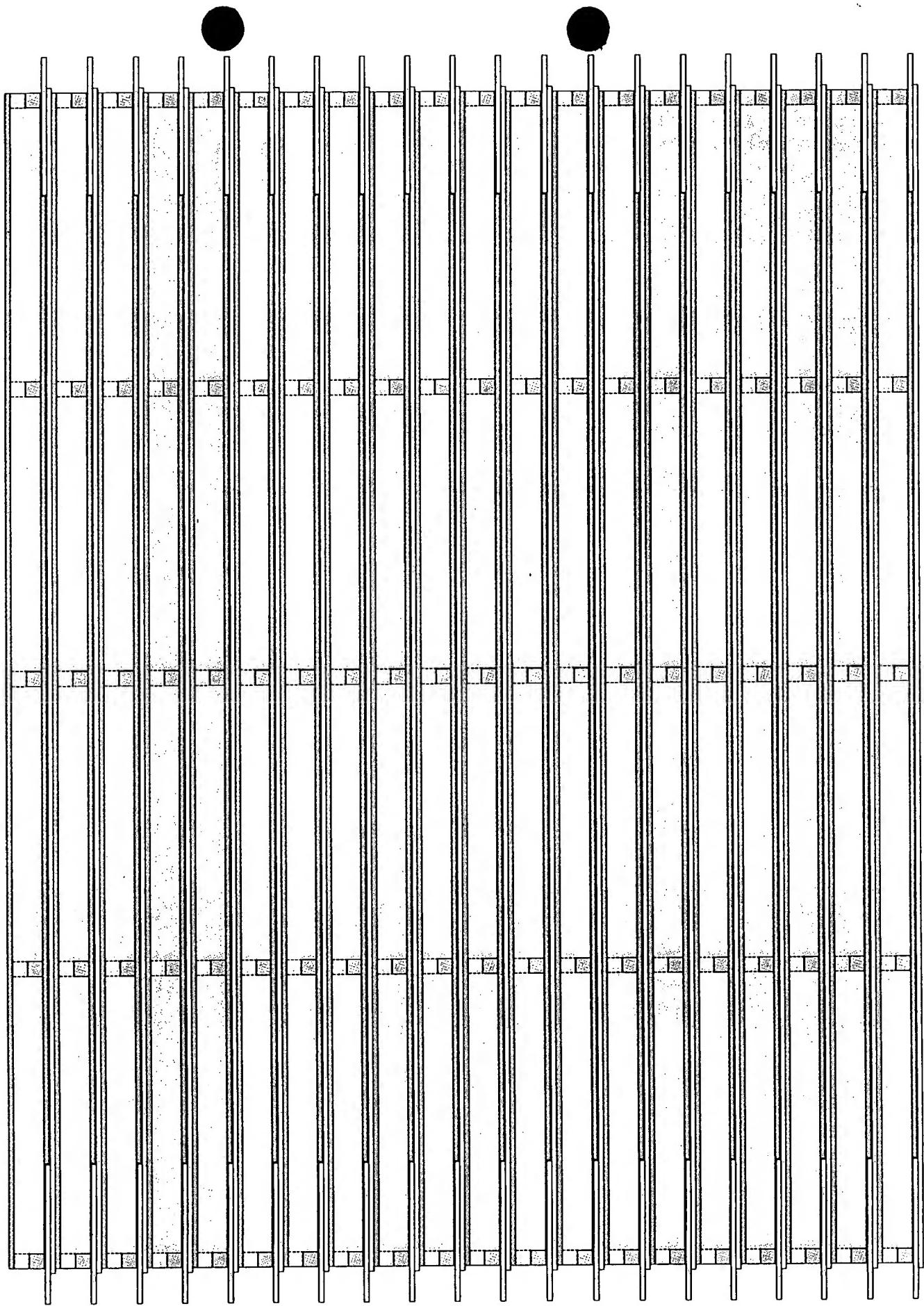


Figure # 694

SCHEMATIC DESIGN - DRAFT DATE 6/0

✓ 6901 ✓ 6902



Fig. 696 ✓ 6901 ✓ 6902

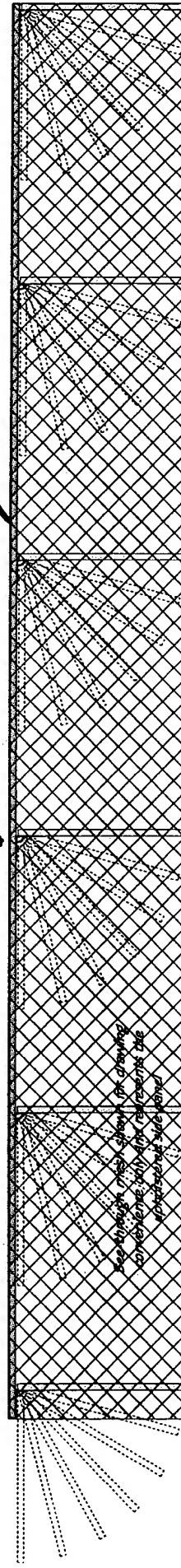
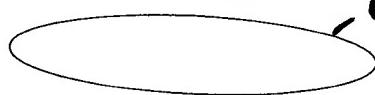


FIG. 69a



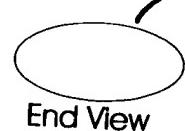
- 6901

Fig 69b



Front View

- 6901



End View

- 6901

Fig 69c

Figure 70

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

700²
7001

Figure 71

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

7101 7102 7103

700¹
700²
700³
700⁴

Figure 72

Quilted Top with Fiber & Foam

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

7002

7004
7003
7001

Figure 73

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

7301 7302

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

Figure ~~74~~ 7404

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

7403

Figure ~~75~~ 75

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

Polyurethane Foam

Figure ~~76~~ 7604

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

Polyurethane Foam

Figure ~~77~~ 77

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

High-Grade Visco-Foam

Figure ~~78~~ 78

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

Spring Unit

Figure ~~79~~ 79

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

Spring Unit

Figure ~~80~~ 80

3004

Quilted Top with Fiber & Foam

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

Shallow Spring Unit

Figure ~~81~~ 81

Quilted Top with Fiber

2"-high hollow column gel elastomer with 1" square holes and 0.125" wall thickness

Latex Foam

Figure ~~3~~ 82

Quilted Top with Fiber

Latex Hopper

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

8201 8202 8203

Figure ~~3~~ 83

Quilted Top with Fiber

Latex Foam

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

8301 8302 8303

Figure ~~3~~ 84

Quilted Top with Fiber

Polyurethane Foam

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

8401
8402 8403

Figure ~~3~~ 85

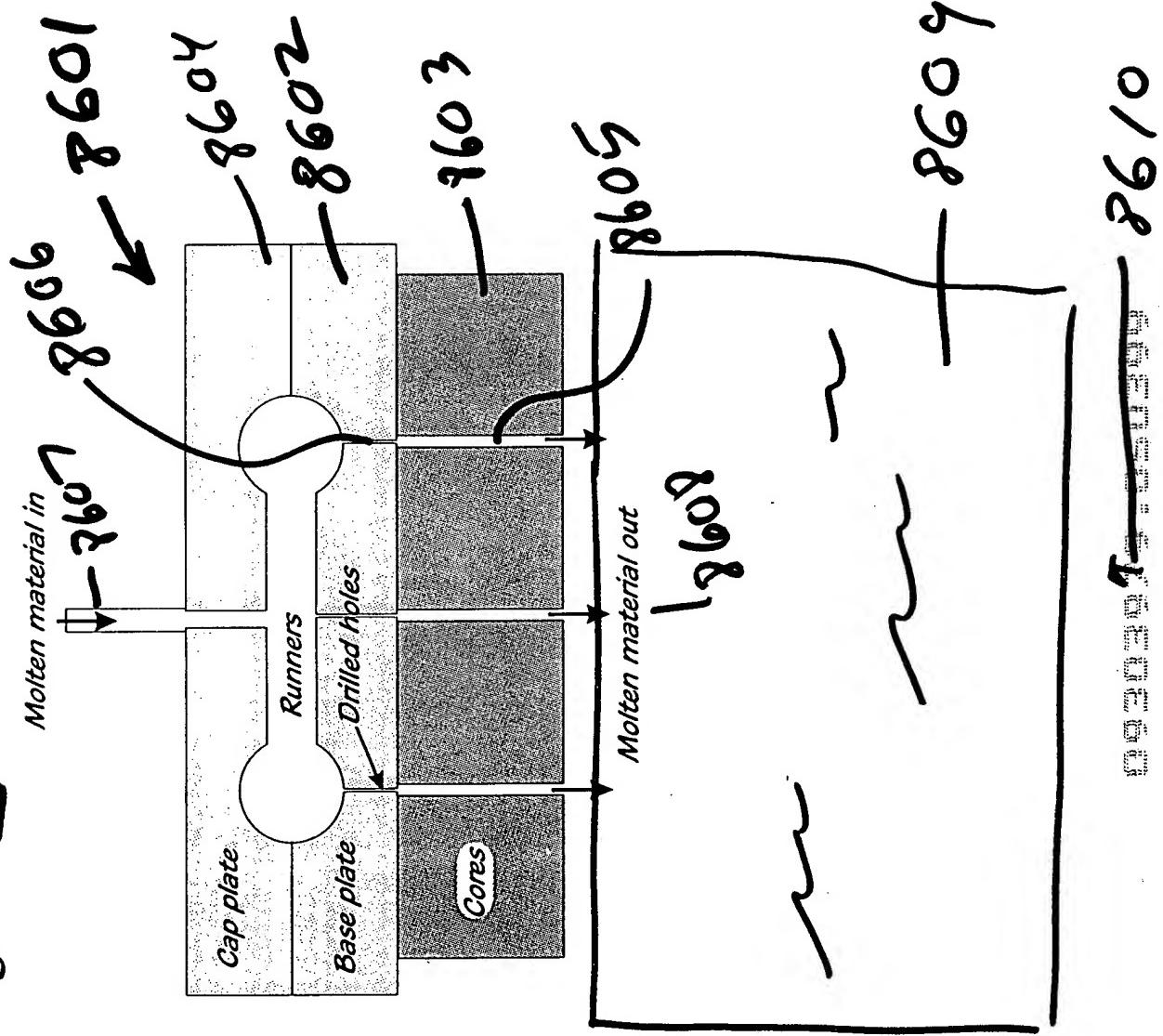
Quilted Top with Fiber

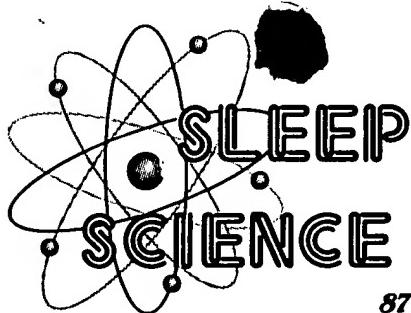
Pillow-Soft Polyurethane Foam

6"-high hollow column gel elastomer with 1.8" square holes and 0.10" wall thickness

8501 8502 8503

Figure 2





Toll Free
877-85-SLEEP

Sweet
Mornings
1

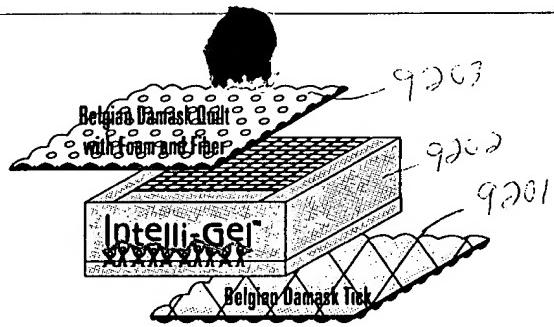


FIG. 92

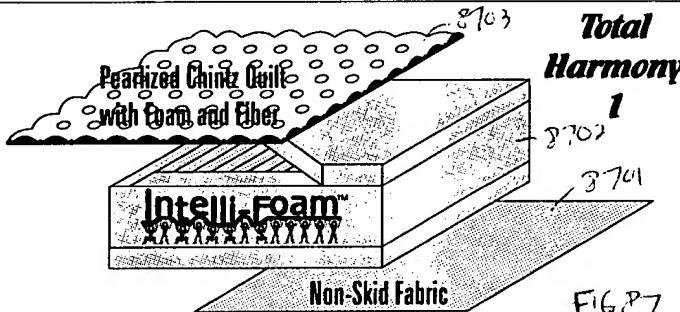


FIG. 87

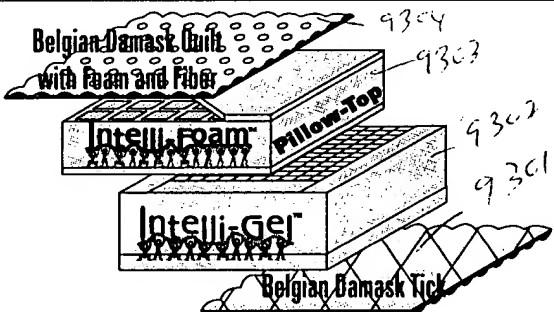


FIG. 93

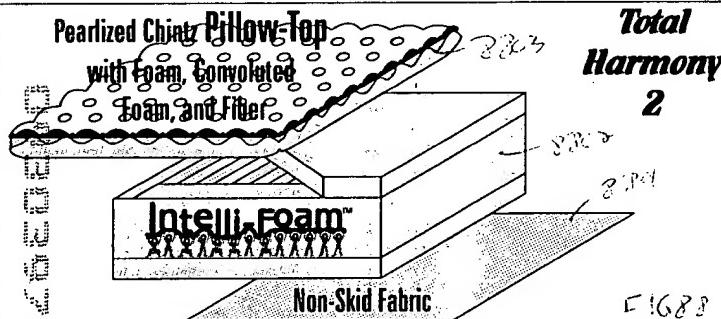


FIG. 88

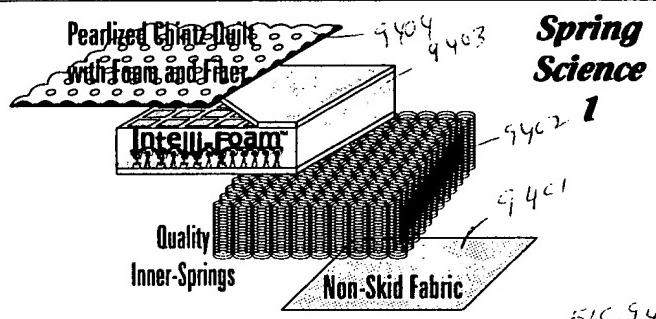


FIG. 94

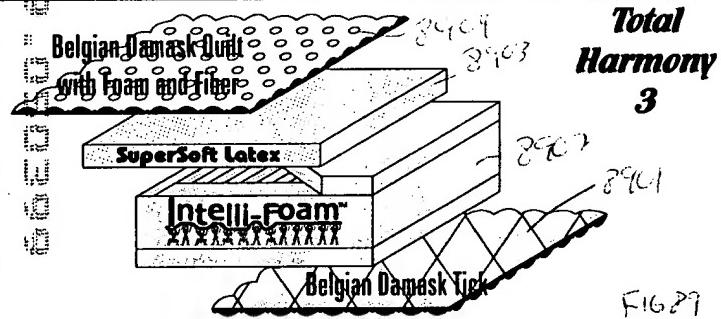


FIG. 84

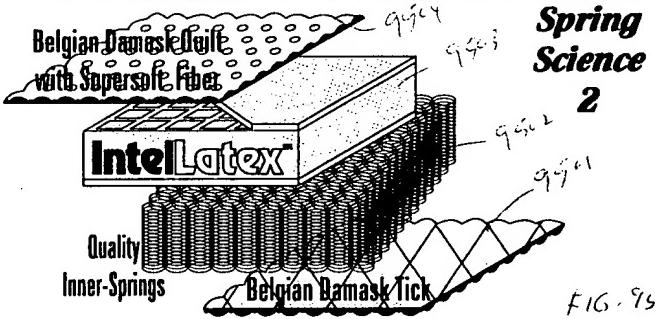


FIG. 95

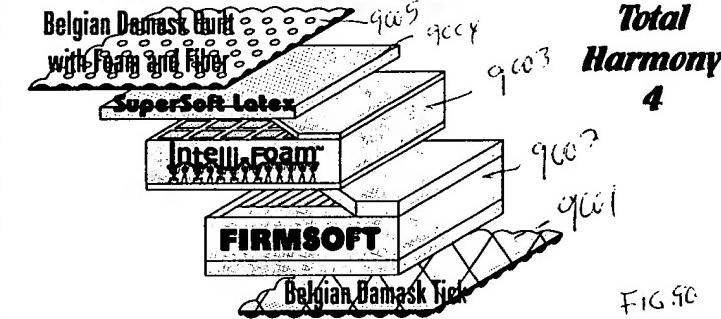


FIG. 90

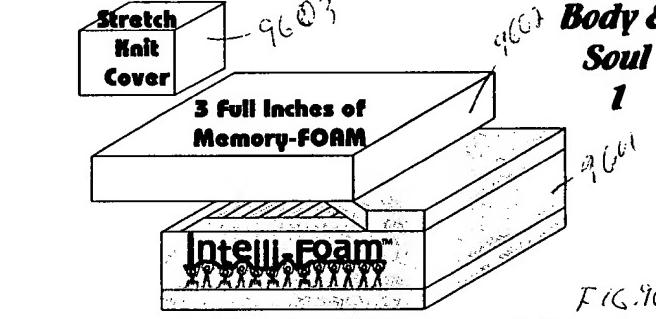


FIG. 96

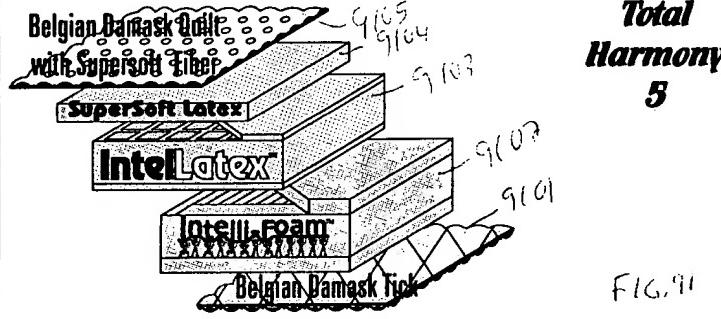


FIG. 91

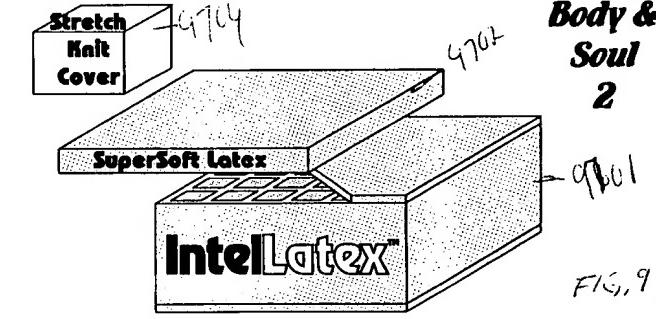


FIG. 97